

APEC support

Grad students and faculty donate to UBC students' legal fund.

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With a little help from my friends

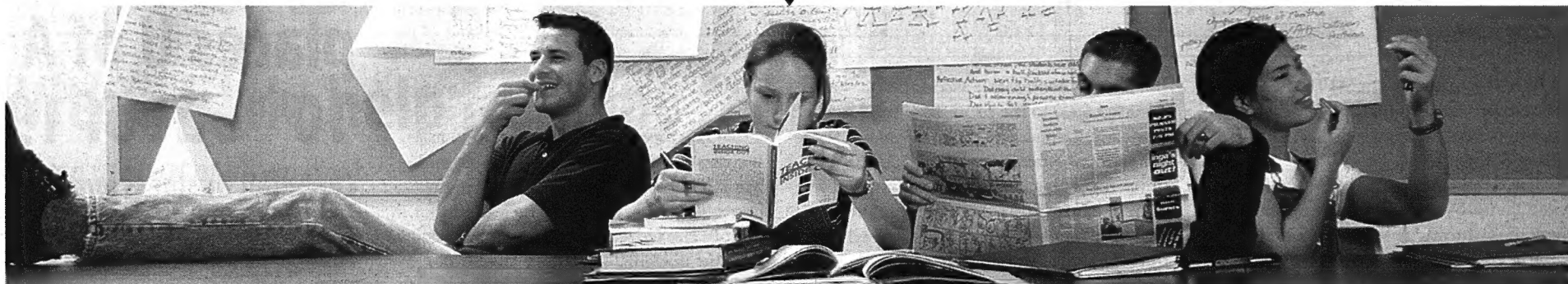
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UNIVERSITY OF ALBERTA

folio

Volume 36 Number 5

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CFI dollars guarantee hard cold research

Twenty-one U of A proposals successful in first round of funding

By Lee Elliott

While the rest of us dream of escape to sunny climes this winter, Dr. David Sego, civil engineering, and his colleagues at the Geotechnical and Geoenvironmental Cold Regions Research Facility are celebrating because they'll have enough cold.

"That's the environment we live in, you have to understand it to properly build the infrastructure for society," says Sego. And thanks to Canada Foundation for Innovation funding announced Oct. 23, Sego and eight other researchers in the project will be able to replace aging facilities and equipment, some of it nearly 30 years old.

"It's the only facility left in the country with a focus on resource development and what we call geomechanics," says Sego. Others, such as those at the National Research Council, École de Polytechnique and the University of Manitoba, have all closed.

With the new funds, all six cold rooms will be shut down sequentially, gutted and replaced along with much of the equipment. "The compressors will all have the new freon gas in them so they will be environmentally friendly," says Sego. "They will be more efficient in terms of the energy use so the operating costs will be less...[Currently] we have a lot of maintenance just keeping them going."

A day in the life of a cold researcher means donning "what we call here, affectionately, B09 tuxedos," named after the coldest room. Sego says technician Christine Hereygers can be seen "in the middle of summer wearing thick insulated coveralls walking down the hallway because they're a pain to get out of." Rooms vary from environmental cham-



Christine Hereygers and Dr. David Sego

bers at plus 3°C to cold rooms at minus 40°C and everything in between.

The researchers take core material (like permafrost, soil, ice and sand) in a frozen state, preserve it and bring it to the lab. "You don't have to go to the North to get frozen samples," says Sego. "We, in above 30° C temperatures, retrieved frozen samples from Vancouver in the lower mainland because we artificially ground froze to get undisturbed samples."

CFI will provide \$250,000 towards the \$625,000 project cost. Another \$125,000 will come from the faculty. They're waiting to hear about \$250,000 they've applied for in provincial I2P2 funding.

ULTRAFAST LASER GIVEN GO AHEAD

The Ultrafast Laser Source with Extended Wavelength Turnability for High Speed Characterization of Materials and Devices—is also a go.

And if researcher Dr. Frank Hegmann is lucky, he won't have to say his project title too often now that he can buckle down to working on it with his CFI funding.

Hegmann is one of 27 new kids on the block—U of A researchers new to a faculty appointment in Canada—involved in the 17 of 26 applications approved for CFI funding in its first round.

Dr. David Strangway, CFI president and CEO was on campus Oct. 23 to personally congratulate the successful applicants.

These included Dr. Fernand Ellyin, mechanical engineering, Dr. Edward Tredget, surgery, and Dr. Chris Zeiss, civil and environmental engineering, who were each successful in their proposals for another category—Institutional Innovation Funding under \$350,000. Lynda Brulotte, information officer for the Research Grants Office, says we only applied for three in this category, so our 100 per cent success rate looks great beside the 54 per cent average.

TWELVE PROJECTS PENDING

The nail biting part of the process is waiting for news on the nine U of A proposals, totaling more than \$28 million, invited for further review. "Each project was carefully reviewed, and had to demonstrate its potential to contribute to the advancement of Canadian innovation, said Dr. Strangway. "The projects invited to move on to the next stage of the review represent about \$735 million in proposed infrastructure."

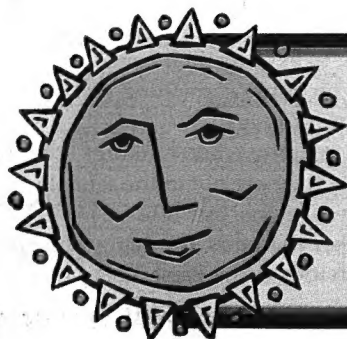
The budget is approximately \$370 million, so "the next phase will remain very competitive," he said.

An additional three U of A proposals, worth \$7.6 million in construction costs, are also still being assessed. ■

New Opportunities Awards by Institutions, top five

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Grad students and faculty vote to support APEC protesters' legal fund

By Geoff McMaster

While the future of the APEC hearings remains uncertain, two campus associations have agreed to help out with UBC students' legal fees.

The Graduate Students' Association voted "with overwhelming support" last week to withdraw from the Council of Alberta University Students and apply the \$750 membership fees to the APEC protesters' legal fund instead. All but two student representatives from each of the 68 departments on campus voted in favor of the motion, says GSA president Kimberley Speers.

"The actions we take and the actions other student associations take are connected. It is important that when we speak out against issues we believe in, we are not peppered or hit with baseball bats by any government."

The academic staff association has also donated \$500 to the protesters' fund, says association president Wayne Renke. "There are serious issues raised by the APEC inquiry regarding academic freedom and freedom of expression on university campuses," he says, "and secondary issues raised about the integrity of the university...as bound by certain norms of conduct."

"At this point we really can't say whether the police actions were justified or not. But the practical way for the evidence to come out is through funding the students, since they have the greatest interest in making sure all the facts that might reflect badly on the RCMP and the government come out."

The Students' Union, however, has decided not to contribute to the legal fund, says VP External Bruce McRae, since such a

gesture does not meet the council's mandate.

"[The money] would have gone towards students at another campus, and our job here is to represent U of A students," he says. However he added that in light of the federal government's refusal to pay the students' legal fees, the Students' Union may revisit the issue.

The legal fund now stands at about \$65,000, says Miriam Sobrino of the B.C. Federation of Labour. She says a few faculty associations from across the country have contributed, including those at UBC and the University of Northern British Columbia, and a number of students' associations have also "expressed interest." Speers says she plans to start a U of A fund to which students at the U of A can donate money. ■

Salary-based MBA ranking places U of A 10th out of 19

Canadian Business ignores cost-of-living differences, says associate dean

By Lucianna Ciccocioppo

A survey of 19 MBA schools across Canada by *Canadian Business* magazine placed the U of A's program at number 10, same position as last year. Queen's University ranked number one, with Manitoba's new program placing second and University of Toronto third. Just after the U of A was Calgary.

The magazine calculated how much richer—or poorer—an MBA leaves students seven years after entering school. It looked at the payback for students earning \$25,000, \$35,000 and \$45,000 before entering school and what their starting salaries were once finished. The magazine asked: does an MBA make financial sense?

According to *Canadian Business*, someone who left a \$25,000 year job behind to start a Queen's MBA had a payback of \$349,072 after seven years from the time she or he entered the program. Someone who left a \$35,000 job—\$267,651 and \$45,000—\$186,590. For U of A, those numbers are \$224,351; \$142, 930 and \$61, 869 respectively.

But Kay Devine, associate dean MBA, says there's a Central Canada bias in the survey. "It's misleading because it doesn't talk about geographical differences. If you take the same salary here and multiply it by 2.5, we would rank up at the top."

Devine goes on to note the top-ranked five schools, with the exception of Manitoba,

are in the East. "Even all the photos are from the East," says Devine.

Salaries are high for U of A graduates, says Devine, and MBA students are still coming out ahead. "There's a higher cost of living in Ontario. Would you work for the same [Alberta] salary?"

Bill Foster, head of the MBA Students' Association, shares Devine's disappointment. "We would like to see them take cost of living into consideration when doing the study," Foster says

Manitoba has an 11-month program where the average student has nine years of work experience. At the U of A, that number drops to about four years of experience. Foster says this has an impact when looking at incoming salaries.

"We're convinced that the U of A's MBA program is one of the top in the country. If *Canadian Business* used fair indicators of what makes a good school, then yes, we would take our lumps," says Foster, who argues the survey does not look at the quality of the faculty or curriculum, only salaries. "I'm sure all the schools in Western Canada share the same gripes as we do." The association will contact the magazine to express their concerns, says Foster, who hopes something will be done with future surveys.

It's damaging when rankings are published and they are not in the school's favor, says Devine, but "I hope people look further than this. It's denigrating to all universities in the West." ■

U of A hosts top Chinese business women

Entrepreneurs impressed with business support, but shocked by gender wage disparity

By Lucianna Ciccocioppo

After a two-week educational visit to Edmonton, a group of top Chinese businesswomen say they'll take the spirit of volunteerism and mentoring so prevalent in Western society back with them.

Wei Ruiling, general manager of Xian High Top Co. Ltd., one of six people in the group, was impressed with the business acumen and level of community service of Chancellor Lois Hole after a tour and lunch at Hole's Greenhouses. "I've already

decided to go home and set up mentoring groups to help other women in business," said Ruiling. She works in marketing for the commercial development company, a joint-venture with Germany. Several women were involved in housing and apartment development companies, a booming sector in the northwest region of China. One owned a 500-seat restaurant and entertainment complex.

Move over Mao. These women have shunned the green garbs for labels and luxury. The five entrepreneurs, who paid their own way to Canada, and one business professor from Xian Jiaotong University, had a jam-packed itinerary of lectures, visits and meetings with Canadian industry representatives and government officials. It was sponsored by the Canada-China Higher Education Program, a CIDA-funded project linking the business schools of Xian Jiaotong and the University of Alberta.

Xu Shuping said she now has plenty of ideas to move her company forward in terms of computer and modem technology. Her development company has branches all over China, Hong Kong and South Africa. "I was impressed with all the laws, legislation and acts set up to help business. Also, there are very good relationships between companies." In Xian City, with a population of six million, the business environment is extremely competitive, and while the government is helpful with loans, the supporting service in-

frastructure is still not available, she said.

"Even though the Chinese government provides capital...we need consultants to interpret state policy. Service is not detailed. It needs improvement," said Shuping.

The women agreed that talking to three levels of government and people involved in real estate, marketing and business law, as set up by Canada-China Higher Education Program, would be unheard of in China. Their country is still struggling to adjust to the explosion of a market economy that has emerged from a staid socialist environment. And while they found Edmonton slower paced than Calgary, they marveled at the potential in the natural resources sector.

What shocked them was wage disparity between the genders in Canada. They see Canada as an advanced Western country but say we lag behind when it comes to the number of women involved in the upper echelons of society.

"In my opinion, there are many excellent women involved in politics and the economy in China. Here, I found many women involved in family-sized businesses," said Ruiling.

Professor Qiu Changrong, here for four months on a faculty exchange, says these educational visits are important and necessary. "I hope this project can continue. We are very appreciative. It's worthwhile to see how other countries operate." ■

folio

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...it makes sense



A business lunch and tour at Hole's Greenhouse for the Chinese women entrepreneurs delegation.

With a little help from my friends

Making the best of group work

By Geoff McMaster

It's a scene we've probably all witnessed. An instructor walks into the classroom and decides to change the pace for a day or two: "Okay class, divide into groups and talk amongst yourselves."

Depending on your frame of mind, you either welcome the lucky break as a chance to talk about last night's hockey game, or embrace the challenge in good faith and end up doing all the work.

Over the past few decades, the traditional "one-way" lecture has been slowly disappearing in favour of co-operative learning. In fact you'd probably be hard pressed to find a professor who doesn't use group work at least part of the time, if only to relieve the monotony. But how well does it really work?

Experts on the approach insist that the choice between collaboration and lecturing is hardly an either/or proposition. Both approaches, especially when combined, can be used with high degrees of skill and success, just as both can result in unmitigated disaster.

"Murphy's law works in the classroom quite well," says Dr. Terry Carson, chair of secondary education. "You have the big picture and you assume it's going to go smoothly, but the devil's in the details. If you don't take care of detailed planning, you really run into trouble."

The bottom line, says Carson, is that group work is no holiday. Experienced teachers usually spend more time preparing group sessions than conventional lectures. Questions, task distribution and expected outcomes must be absolutely clear, and the instructor must be sensitive to the dynamic of each group. Otherwise groups may fall victim to what Robert Slavin in his book *Co-operative Learning* calls the "free rider effect, in which some group members do all or most of the work (and learning) while others go along for the ride." Most importantly, says Carson, discussion should not be given free reign for long periods of time: "It works best in short bursts."

In the opinion of some, however, collaboration is promoted so widely in high school and university, students can't face a challenge without holding hands. In a recent article in the *Chronicle of Higher Education*, New Haven English professor Paul Marx says, "so many teachers encourage consultation and collaboration, many college students see no reason to struggle in isolation when writing."

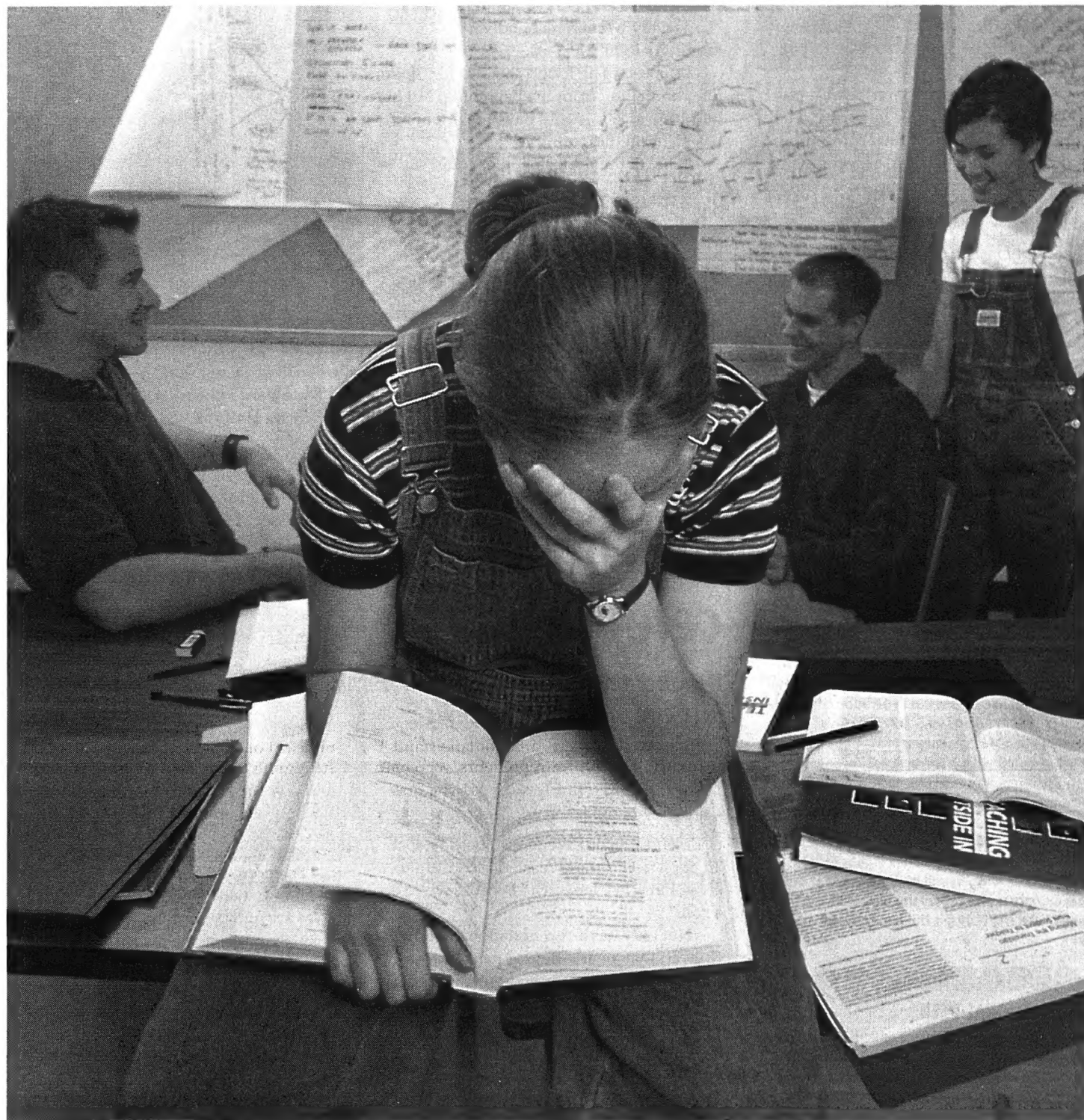
But Dr. Joe Norris, who does research on co-operative learning in the education faculty, argues there is far too much emphasis on individual achievement and he

would like to see even more group work become the rule. Students in his class collaborate to write plays, mostly on social issues.

"It comes down to philosophy...Are we individuals or are we a collective? Co-operative learning helps us to learn teamwork. In most work environments, we work as teams, we don't work as individuals."

How do we learn those citizenship skills? It's through communities that make decisions...the process itself is part of the curriculum."

Dr. Joe Norris



Tina Chang

"Yes, it may take away some time to learn to write a better essay...but what is more important? I think our society needs more learning how to get along together than more and better essay writers."

Norris says research shows the majority of the population, as many as 75 per cent, are extraverts who learn best "with mouths open, engaged" in a collective environment. You still have to come up with ways to reach the other 25 per cent, perhaps by encouraging students to write in journals before approaching the group, but in his mind "the lecture has more danger of being overused...Seventy five per cent of instruction should be hands-on talking, discussion groups, etc. and 75 per cent of testing should also be oral."

In addition, says Norris, Alberta curriculum insists students learn citizenship skills, collective by their very nature. "How do we learn those citizenship skills? It's through communities that make decisions... the process itself is part of the curriculum."

Dr. Gary Kelly began using the group approach 15 years ago after spending the first part of his career paying homage to what he calls "the dead hand of Socrates,"

a pointless, cat-and-mouse game in which the student tries to "guess the answer the professor wants you to give."

He says research has shown for decades that, especially in an interactive discipline like English, lecturing is the least effective way to teach. And besides, since walking away from the podium his own life has become far more interesting. "I mean, I know what I think already," he explains, adding that it's especially exciting to learn from students at the first-year level, before the competition of the honors program sets in.

But aside from the pedagogical advantage, Kelly says he has strong social and political reasons for "breaking down the idea that knowledge is private property."

"Bourgeois individualism is rampant, and [group work] helps to break down the tendency of the usual type of teaching, which is to construct adults as middle-class liberal subjects suitable for the modern liberal state. So when I say it's political, yeah, I have a politics...that co-operation is better than competition in most instances."

Kelly says collaboration doesn't work for everybody, and tends to fail when

there are "bad citizens" in the class. It also falls flat in cultures where competitiveness is conditioned. "I tried it in England when I was there and the students just had great difficulty conceptualizing what it was all about, because their whole system is so geared to competitive examinations where the only feedback they get is a letter or number grade."

Medicine is one discipline in which competition and straightforward, one-way delivery of information would seem natural, at least in initial stages. But even there, says Rutherford-winner Dr. Martin Palmer, the collaborative approach is making headway.

For the first time this year, the faculty has revised curriculum so first-year students confront patients directly, consulting collectively about best forms of treatment, "a substantial departure from the traditional education model and an enormous improvement," says Palmer.

"No one tool is the perfect answer. The downside to a lecture is it's a one-way street...often just giving the information, you don't have a sense of the importance of it or how it plays out in a particular situation." ■

Rudy Wiebe up for another Governor General's Award

By Geoff McMaster

Dr. Rudy Wiebe and Yvonne Johnson have received a Governor General's Award nomination for their collaboration, *Stolen Life*. It's the first time Wiebe has been nominated for non-fiction.

The Alberta writer has won the fiction prize twice before, for his novel *The Temptations of Big Bear* in 1973, and *A Discovery of Strangers* in 1994. Such accolades may seem routine by now for Wiebe, but he says the thrill never goes away.

"You're judged by your peers—by other writers and people who read a lot. This is one of the most rewarding things that can possibly happen, especially in a new area of writing for me. And without Yvonne Johnson this would have been impossible."

Stolen Life is a true-crime story of sorts, which began as a series of letters sent by Johnson to Wiebe when she was at the Prison for Women in Kingston, Ont. in November, 1992. While the book was a voyage of discovery for Wiebe—he says he knew nothing about the world of crime, racial prejudice and poverty—the process

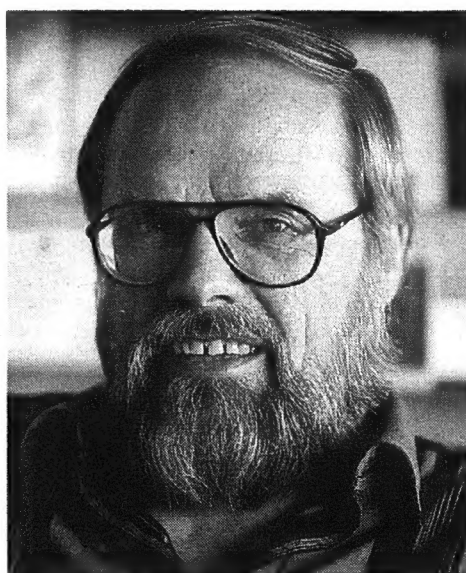
of writing was also "a completely new world" for Johnson, he says.

"She's very happy about the news (of the nomination)," he says. "What this book has brought into her life is really quite enormous." He says Johnson has received letters from all over the world from people who want to know more about her story. "Especially women respond very movingly to it."

Wiebe says he found the idea for *Stolen Life* compelling from the beginning, but he had little idea it would have the impact it has so far in this country.

"One of the things people would say to me was, 'okay, here's another story of a painful aboriginal childhood—we hear this all the time.' I'd ask, 'how many books have you read?' and it usually turns out they haven't read any, because there aren't any. There's a tremendous pressure amongst native people in Canada to remain silent, especially in the white world they live in."

Edmontonian Judy Schultz has also been nominated in the nonfiction category



Dr. Rudy Wiebe

for *Mamie's Children: Three Generations of Prairie Women*. Schultz teaches writing for the Faculty of Extension.

The award winners will be announced at a Rideau Hall gala in Ottawa, Nov 17. ■

ASTech honors three from U of A

By Geoff McMaster

Three U of A professors landed two top awards and a prize at the Alberta Science and Technology Foundation Awards (ASTech) Oct 23.

Dr. James Murray received an award for outstanding contribution to the Alberta Science and Technology Community. Dean of Science Richard Peter took the award for outstanding leadership in Alberta science, and Dr. Don Scott received the Syncrude/ASTech Oil Sands Research Prize. ASTech awards are given to those who have helped Alberta set the pace in a rapidly changing, knowledge-based economy.

As director of the Industry Liaison Office, Murray was recognized for dramatically increasing the number of companies spinning-off U of A research. Since 1994 the office has helped to create 33 commercially viable organizations, putting the U of A first in Canada and second in North America for spin-off companies. Under his direction, the university also earned more royalties from patents and licenses than any other Canadian university.

Murray also fought, as a member of the board of directors of the Canadian Bacterial Diseases Network, to have the network's headquarters moved to Alberta. Last spring he won the first Smart Business Award for his leadership, and has recently been appointed to the Prime Minister's Advisory Council on Science and Technology.

Dr. Richard Peter was the first to develop a stereotaxic map of the brain of a fish, which prepared the ground for important work in fish endocrinology, such as his own research on the hormonal regulation of fish reproduction and growth. Peter's "spawning-on-command" treatment is marketed internationally to maximize harvest in fish farms. He has more than 280 original publications to his credit, including books and review articles.

Dr. Don Scott, professor emeritus of geotechnical engineering, has made significant contributions to the oil-sands industry, conducting research on reservoir behavior and mine tailings streams. He has also been involved in training high-quality personnel. In the early 1980s, he implemented the first master's of engineering degree program in oil-sands engineering, along with an accompanying co-op program, at a time when demand for personnel outstripped supply in the early years of the mining industry. ■



Dr. Jim Murray

laurels

HESKETH NOMINATED FOR BOOK PRIZE

Dr. Bob Hesketh, history, is a finalist in the Humanities and Social Sciences Federation of Canada (HSSFC) Harold Adams Innis Scholarly Book Prize. Hesketh's book *Major Douglas and Alberta Social Credit*, is published by University of Toronto Press.

The prizes, worth \$1,000 each, are designed to recognize excellence in research and writing in the humanities and social sciences, and to acknowledge the significant contribution that Canadian scholarly books make towards the advancement of knowledge.

The prize winners will be announced at the HSSFC Congress hosted by the Université de Sherbrooke and Bishop's University June 2 to 12, 1999.

DR. CHUJI HIRUKI HONORED BY INTERNATIONAL PEERS

Dr. Chuji Hiruki, professor emeritus, plant pathology, was among the first recipients of the Mycoplasma Recognition Award, announced at the XII Congress of the International Organization for Mycoplasma (IOM), in Sydney, Australia. The



award cited Hiruki's outstanding career service to the study of mycoplasma and significant contributions to IOM.

Hiruki's work has been well received nationally and internationally in the mainstream of phytoplasma and in the application of

molecular biology to diagnostic problems in mollicutes-associated plant diseases. He was awarded the 1996 Outstanding Research Gold Medal from the Canadian Phytopathological Society and the 1993 Award for Lifetime Achievement from the American Phytopathological Society.

Hiruki's book, *Mycoplasmas and Mycoplasma Diseases of Trees* (University of Alberta Press) has been translated into Spanish. In August, Hiruki was elected treasurer to the Executive Council of the International Society of Plant Pathology for a five-year term.

TWO U OF A SENATORS ELECTED

Two members of the U of A Senate were elected in recent public school board elections. Gerd Andres was re-elected to a second term on the Wetaskiwin Regional School Board. He is a senior business and financial analyst with the Alberta Dairy Control Board, a position he has held since 1991.

Rodney Fong was re-elected as a Public School Board trustee in the city of Lethbridge. He is a lawyer practicing with the firm of North & Company.

Arts on a roll—and celebrating

Number one in Canada in major and collaborative SSHRCC grants just one piece of good news

By Lee Elliott

The Faculty of Arts initiated its first ever Celebration of Excellence Tuesday, Oct. 20, for a very simple reason, according to Dean Patricia Clements: "Because we're on a roll."

Not only has a recent national study showed that an arts degree pays off—in increased earnings throughout a working career—but the faculty was able to celebrate a dramatic increase in scholarship funds and faculty members that have set records in achievement.

Clements says the Dean's Advisory Council of Students, which meets monthly, asked for arts leadership awards two years ago. In response, says Clements "There are the generous awards from the *Edmonton Journal*, Harriet Winspear, the Bank of Nova Scotia and the faculty itself has established some 30 plus Excellence Awards for incoming students."

One such student, Jared Wesley, was enticed to the U of A from his home near Brandon, Man. with a Dean's Citation in Arts worth \$10,000 over four years. With a high school average of 95.8 per cent, Wesley confided in the dean that he "came for the money," but stayed, "because it's the place to be." He was one of 90 students honored at the celebration. "I was struck at the celebration, that almost every award we recognized did not exist five years ago," says Clements.

In fact, Dr. Lesley Cormack, associate dean of students, says \$68,000 in new student awards was added this year.

Outstanding professors, including Juno Award winner Dr. Malcolm Forsyth, were honored as well. "The awards established by Francis Winspear a few years back have been given to newly recruited staff to enable them to achieve some of their research goals," says Clements. And all the evidence points to a faculty successful in achieving its goals.

"We stand at number three in Canada on a count of overall allocations from all Social Sciences and Humanities Research Council of Canada (SSHRC) programs, and we are number one in Canada in major and collaborative grants," says Clements.

Dr. Carl Betke, director, strategic analysis, who crunched the numbers, says, "An important component in our current position in SSHRC research funding has to do with our successful leadership of large collaborative programs." If we'd done the same calculations on payments from SSHRC in the '80s, "the U of A was typically ranking between 10th and 13th," he says.

Dr. Stephen Slemon, associate dean (research) of arts, says while Maclean's rankings give the U of A seventh place in the Standards Grants competition in 1997/98, its cumulative rankings across the total research allocations made by SSHRC in all its granting programs, puts the U of A in third place.

This is a 66 per cent improvement between 1991/92 and 1997/98, says Slemon. No other university matched that improvement with any of the Tri-Councils (NSERC, SSHRC and MRC) in the past seven years, he says.

That type of success is behind scholarship and creative activity that ripens over time and becomes evident in Governor General's Awards, Giller nominations, Junos, Royal Society Fellowships and SSHRC grants, says Clements. "The Winspear Awards, for instance, named after Violet Archer, Sheila Watson and Brendan Rule, underline the continuity of this excellence across the fine arts, humanities, and social sciences. We have had a hand in the creation of this country's artistic and imaginative and intellectual culture, and that's good reason to celebrate." ■

Passing on a passion for books

Science and Technology Collection officially opens

By Lucianna Ciccocioppo

Once upon a time in a land far away, a stern saleslady in an old bookstore tut-tutted her head at the sight of a little boy rummaging among the books. The place was Sheffield, England. And the 12-year-old was Dr. William Sargeant, now a geology professor at the University of Saskatchewan.

Sargeant paid no heed to that woman. In fact, he regularly scouted second-hand bookstores ("Books were hard to come by during the Second World War,") to add to his ever-growing collection.

Fifty years later, that collection encompasses about 85,000 books covering a di-

verse range of subjects including the history of science, transportation, archaeology, petroleum and mining industries, humor, children's literature and crime fiction. The bulk of it covers the history of geology and related sciences and is considered one of the largest private collections of its kind in North America.

"I was worried about finding a permanent, satisfactory home for my collection. University of Saskatchewan turned my offer down and University of Calgary panicked at the cost of maintaining it," says the Santa-like Sargeant with his twinkling eyes, silver hair and matching beard.

And what a gift he gave away.

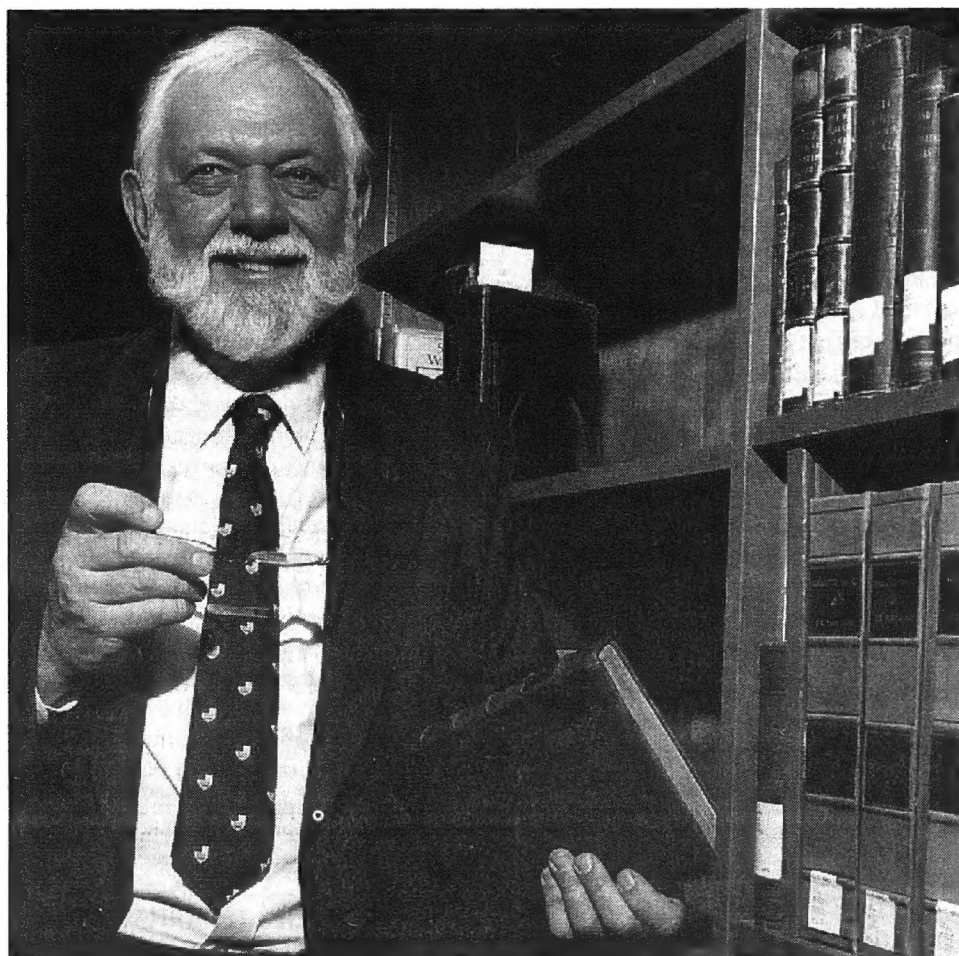
Part of the collection, about 15,000 pieces, is currently at the University of Alberta, thanks to the quick thinking and action of Dr. Merrill Distad, associate director of libraries. A bookstore owner in Saskatoon knew Sargeant was looking for a home for his collection last year and told the professor he would contact Distad at the U of A. By the time the geologist returned home, there was a message on his answering machine. Distad had set the wheels in motion.

While most of the books are still in the process of appraisal and cataloguing, the Science and Technology Special Collection in the Cameron Library was officially opened Oct. 22. The remainder, about another 35,000 books, will arrive at the U of A as part of Sargeant's estate. Total value? "More than \$500,000," says Distad.

Some choice items include: *The Crock of Gold* by James Stephens, a science fantasy work that won a book binder prize, says Sargeant; a mid-17th century edition of a geological autobiography of William Whiston, a contemporary of Newton and the second printing of *The Origins of the Species*, dating back to the late 1880s.

"We've saved this collection from dispersal," says Distad. "The U of A can afford to be bullish in its acquisitions thanks to the BARD (book and record depository.) It really is our trump card." The collection was available for public use since the spring and interest it in continues to grow.

But what makes this particular collection so fascinating is the colorful personality of the donor. Sargeant isn't just a collector of books; he's also a writer, and a prolific one at that, writing beyond the academic treatises expected of a professor. Just about anything piques his curiosity and fuels his storytelling skills. "I never want to stop writing. I write and write and write," he says. Indeed, he has diligently kept a diary, with daily entries, since 1946. His magnum opus, a 40-year project, is the 10-volume *Geologists and the History of Geology*.



Dr. William Sargeant officially opens the U of A's Science and Technology Collection in Cameron Library

folio letters to the editor

Mystery of the disappearing desk solved

Eureka! The missing Tory Desk! And where might that be? Why, in the home originally meant for it when the Arts Building was restored some 12 years ago. It is now located in a historically and architecturally appropriate setting, the very place designated for it when the Arts Building regained its splendour in 1987: the chair's office of modern languages and cultural studies.

Let us cast our minds back to help the perplexed Professor Evans solve this baffling mystery. It seems that this fine desk has been "in storage" for many of its recent years. As rightly reported (*Folio*, October 16), after years of oblivion the Tory Desk once found its way to the office of Professor Lewis, then chair of history, where it was "stored." Professor Evans did not mention, however (perhaps he did not know), that this same desk, when restored through a generous gift by Ethel Lieberman Fried (member of the U of A Senate from 1977 to 1983), was destined for the office of the chair of the then Department of Romance Languages, not for

the Senate Chamber at all. With fine woodwork that matches the desk, a fireplace, ornaments and large windows, the chair's office is itself also a historical treasure. Together they make a memorable impression, as it was intended they should when the restorers set to work on both of them a dozen years or so ago.

However, the chair of Romance languages opted at the time for a more modern and a more modest piece of furniture, and the Tory Desk was "stored" yet again, this time in the Senate Chamber. But, contrary to Professor Evans' conviction that "it was placed on public display" after renovation, it was simply parked, shoved up against a wall, almost hidden, living a life of anonymity. Alone and unloved (except perhaps by Professor Evans), neither highlighted nor 'on display'. For 12 long years it languished, forgotten, anonymous, and most frequently used as a bench for overflow crowds in the Senate Chamber, as I and many Arts Building residents personally witnessed. We are thankful to Professor Evans for having drawn the atten-

tion of the university community to the "missing" Tory Desk, for now its apparent absence has brought its real presence to light.

No longer forgotten, no longer anonymous, treated with the respect it deserves, and used for the purpose for which its builders and restorers intended, the Tory Desk and its origins are recounted to all visitors to the chair's office in MLCS. Given its historical importance, the office is frequently visited by foreign dignitaries and 'plain folks': why, just this week the president of the University of Silesia and his associates marveled at the complementary beauty of the room and its furnishings. Indeed, it most certainly is "on display in a better place" and it is where it was intended it should be. And should Professor Evans wish to renew his acquaintance with an old friend, he has but to ask the chair of MLCS, faithful custodian of the Tory Desk, who will gladly spare them a few quiet moments together.

Donald Bruce
Acting chair, MLCS

UNIVERSITY OF ALBERTA CAMPAIGN

The science fantasy series *The Perilous Quest for Lyonesse*, under his pen name Antony Swithin, runs eight volumes. Even his interest in crime fiction spawned a book. "I was lying in bed one Saturday morning, thinking about everything that had been done on Sherlock Holmes. I knew about an article about Watson being a woman," recalls Sargeant, "but what about Sherlock?"

After convincing a friend to "commit the ultimate sacrilege," the two set about seeking evidence for their book: Sherlock lying down so often doing nothing and exhausted ("Could she have had period pains?"); Sherlock expressing his great admiration for women, particularly George Eliot, who was a woman; and Sherlock taking a Turkish bath with Watson, swathed carefully in robes.

"We originally started it as a joke, but then it turned out to be something," says Sargeant. While true Sherlockians were enthusiastic, some critics did brush off *Ms. Holmes of Baker Street* entirely. But with a cat-that-just-caught-the-canary smile, Sargeant says no one has tried to come up with counter-arguments.

At 62, Sargeant has no plans to slow down his teaching, researching, writing, travelling, folk singing, badminton playing and general love of life. And, of course, collecting books, which was part of his itinerary while in Edmonton.

If only that saleslady could see him now. ■

appointments

■ DR. DON PHILIPPON, EXECUTIVE DIRECTOR, HEALTH SCIENCES

Dr. Don Philippon has been appointed executive director, health sciences at the University of Alberta. This new senior position will focus on opportunities for interdisciplinary collaboration among the faculties involved in health sciences and on developing linkages with other faculties to respond to emerging needs of the health system.

Dr. Philippon brings more than 25 years experience in senior positions in government and health services to this position. He has worked in education and health for both the Saskatchewan and Alberta governments. Most recently, he served as deputy minister of Health in Alberta and as vice-president with the Capital Health Authority.

In conjunction with this appointment, Philippon is being appointed professor in the Faculty of Business where he will lend support to existing and planned programs for executive development and management training in the public sector. He will continue to hold the position of adjunct professor in public health sciences he has held for many years.

■ OLIVE SENIOR, WRITER-IN-RESIDENCE

Olive Senior is the new writer-in-residence for the U of A Department of English. Senior is the author of eight books, including: three collections of short stories: *Summer Lightning*, which won the Commonwealth Writers' Prize in 1987, *Arrival of the Snake-Woman*, and *Discerner of Hearts*.

She has also published two poetry collections: *Gardening in the Tropics* and *Talking of Trees*. Her non-fiction work on Caribbean culture includes *A-Z of Jamaican Heritage* and *Working Miracles: Women's Lives in the English-Speaking Caribbean*. Her writing has been featured on CBC and is represented in numerous anthologies internationally. She has read her work, lectured and conducted workshops in Britain, Europe, the United States, Canada and the Caribbean.

McCALLA RESEARCH PRO

DR. TOM CLANDININ (AGRICULTURAL, FOOD AND NUTRITIONAL SCIENCES)

Dr. Tom Clandinin's NSERC-funded research has established the biosynthesis and levels of several novel polyunsaturated fatty acids of 24- to 36-carbons in chain length present in the rod outer segment of the retina.

During the term of this professorship, he proposes to develop new methodology based on MALDI-TOFMS to enable analysis of the molecular species of lipids present in retina and developing neural tissues. This methodology will revolutionize the extremely tedious methodology now used for lipid analysis. These new methods will enable researchers to eventually determine the biological function of 22:6 ω 3 and other very-long-chain essential fatty acids in the retina and in the brain.

DR. BEV DAHLBY (ECONOMICS)

During the tenure of the McCalla Professorship, Dr. Bev Dahlby will write a book on the efficiency and distributional effects of raising tax revenues. Efficiency effects occur when taxes alter consumption, labor supply, savings, or investment decisions. Distributional concerns arise when taxes impose relatively heavy burdens on the poor. The efficiency and distributional effects of raising an additional dollar of tax revenue are referred to as the marginal cost of public funds (MCPF). Calculating the MCPFs for the various taxes imposed by governments can help in evaluating tax reform proposal and measuring the costs and benefits of public expenditure programs. In his proposed research, Bev Dahlby will develop new ways of measuring the MCPFs and will use them to evaluate the Canadian tax system.

DR. DAVID MARPLES (HISTORY AND CLASSICS)

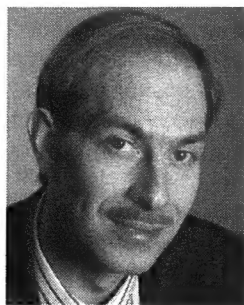
The collapse of the Soviet Union in 1991 saw the birth of 15 newly independent states. While some states have rapidly pursued nation building, others have exhibited a total lack of national consciousness. This study examines the most extreme examples of "national nihilism," namely the Republic of Belarus, the least known of the East Slavic nations (the others are Russia and Ukraine). It seeks to comprehend the roots of current Russophilism and authoritarianism through a reappraisal of Belarus' 10 centuries of history, using primary and secondary sources to elucidate one of the most complex problems of the post-Soviet era.

DR. GRAHAM FISHBURNE (ELEMENTARY EDUCATION)

The research project is designed to investigate how university professors develop into effective university teachers. Canadian university teaching award winners will form the population to be surveyed, interviewed and studied. A deeper understanding of effective university teaching practices is sought together with an understanding of significant influences that can impact university teacher development. The proposed research study will make a contribution to the development of a theoretical basis for effective instruction at the tertiary level. The study will also provide practical significance to those who teach in university programs. In particular, this study may provide a guiding framework for the design of university teacher development programs.

DR. STEVEN DEW (ELECTRICAL AND COMPUTER ENGINEERING)

Dr. Steven Dew's proposed research involves developing the fabrication technology for the areas of microelectronics and optoelectronics. Continued ability to mini-



aturize and integrate these devices will be critical to ongoing development of information technologies. His research will focus on developing and simulating new process

techniques related to the layering and patterning of the thin films which comprise these devices. Specifically, Dew will be developing and verifying next-generation tools for predicting properties at both the sub-micron feature scale and the reactor scale. He will be working on fundamental technologies for amplifying optical communication signals on a chip.

DR. RICHARD BAUMAN (LAW)

Dr. Richard Bauman's project is to write the definitive treatise on corporate law in Canada. The proposed book, entitled *Corporate Law*, will be a comprehensive, authoritative, and readable treatise on business corporations. Its aims are to first trace the historical development of corporate law-making in Canada. Secondly, the book will provide numerous examples of how corporate legal strategies are used in the context of contemporary business practices. At a third level, the text will explore the theoretical dimensions of corporate

doctrine, especially with a view to making a contribution to modern debates over such (trans-national) topics as the reform of corporate governance and the social responsibility of business firms. This book is designed to be useful to corporate lawyers, judges, legal academics (both inside Canada and elsewhere), and business advisors. With the trends toward globalization and the increased activity of foreign investors in Canada, it is vital to have available an authoritative treatment of the legal environment in which Canadian corporations (including subsidiaries of foreign firms) are required to function.

DR. LINDA PILARSKI (ONCOLOGY)

Multiple myeloma is an incurable cancer with median survival of three to four years. This work will identify the malignant stem cell in myeloma and characterize its vulnerability to therapeutic attack, with the aim of developing novel targeting strategies. Using a unique molecular marker to identify members of the malignant myeloma clone and blood or bone marrow cells freshly isolated from patients, Dr. Linda Pilarski and colleagues will identify those myeloma cells that are able to transfer human myeloma to immunodeficient mice, as first measure of stem cell/clonogenic potential. She anticipates that ultimately, these methods will provide workable models of human myeloma for testing of novel therapies.

DR. THERESA ALLEN (PHARMACOLOGY)

The research Dr. Theresa Allen and her colleagues conduct in the area of long-circulating (Stealth) liposomal drug delivery



systems has led to the clinical approval of a liposomal formulation of the anti-cancer drug, doxorubicin (Doxil[®], Caelyx[®]). They propose to develop the next generation of

Stealth liposomes for use in targeted drug delivery. In these experiments anticancer drugs or gene products will be delivered to specific diseased cells via recognition mol-

ecules attached at the liposome surface, causing the liposomes to bind to and deliver their drug to the target cell population. Targeted liposomes containing doxorubicin or antisense oligonucleotides will be tested in pre-clinical studies on haematological B-cell cancers, including those expressing multidrug resistance.

DR. ANNE NEUFELD (NURSING)

The McCalla Professorship Award will be used for research on social support and caregiving that is part of Dr. Anne Neufeld's ongoing research program. The work builds on her previous research on social support of family caregivers, conducted in collaboration with Dr. Margaret



Harrison and graduate students in the Faculty of Nursing. Their findings have contributed important information about several dimensions of support while caregiving,

which includes evidence of the role of reciprocity with family and friends and a new form of reciprocity, "constructed reciprocity," with care recipients; identification of specific personal and situational barriers that prevent family caregivers from mobilizing support; development of a typology of the types of informal support networks of women caregivers; identification of the process male caregivers use to access professional assistance; and identification of gender differences in the number of family and friends who are a source of conflict while caregiving. A study of how women caregivers access professional sources of support has just been completed.

DR. JOHN SAMUEL (PHARMACY AND PHARMACEUTICAL SCIENCES)

The focus of the research is design of therapeutic vaccines for cancer and chronic viral infections. Such vaccines should be designed to activate the cellular arm of the immune system. During the McCalla award period, Dr. John Samuel's research will study pharmaceutical approaches to elicit such responses. Cancer

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FESSORSHIPS

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DR. JOHN SPENCE (BIOLOGICAL SCIENCES)

With his McCalla Professorship, Dr. Spence plans to pursue three research initiatives. As leader of The EMEND (Ecosystem Management by Emulating Natural Disturbance) Project, funded by the forest industry (Daishowa-Marubeni Inc. and CANFOR) and NSERC (NCE in Sustainable Forest Management), he and a crew of 20-25 researchers and graduate students will execute a large scale (1000 ha), three-year experiment 100 km NW of Peace River designed over the last 18 months to ask how harvest and regeneration of northern mixwood forest can best be modelled based on natural disturbance regimes. Because EMEND is the world's leading effort in this area, Spence has already been approached by researchers from Austria, Chili, Finland, Sweden and the USA wishing to participate. In addition, he (with Dr. J. Niemela, University of Helsinki) plans to complete a monograph, "Ecology to conservation: carabid beetles and a model system" (Cornell University

Press), synthesizing their ongoing work on ground beetle population dynamics in relation to agricultural development and forest harvesting, and to initiate a project with Dr. T. Harada's group (Kochi University, Japan) investigating the conflicting roles of local adaptation and phylogenetic constraint on life history evolution in a lineage of water striders.

DR. ARTURO PIANZOLA (MATHEMATICAL SCIENCES)

Dr. Arturo Pianzola's work is in Lie groups (pronounced Lee), so-named after the Norwegian mathematician Sophus Lie who, late in the last century, began the study of this particular field of mathematics. An important illustration of the significance of Lie theory outside mathematics can be found in physics. Here, Lie groups often arise as signs of the postulated symmetry in nature. Examples of this are the rotations and translations in space (classical mechanics), Heisenberg groups (quantum mechanics), the Lorentz group (special relativity), and Kac-Moody groups (superstrings). Another manifestation of Lie theory is the symmetry present in nature itself: snowflakes, molecules, and crystals are good examples. And consider Escher's drawings, Bach's fugues and some of da Vinci's studies; they are quite literally riddled with the symmetries explored by Lie theory. It is thus no exaggeration to say that symmetry (in a Platonic sense) is part of our very nature. Lie groups afford us a crucial tool for furthering our understanding of this relationship.

Doors open for colleges to offer more degrees

By Geoff McMaster

Allowing colleges and technical institutes to grant applied degrees could create confusion in the public mind, says Vice-President (Academic) Doug Owram.

"These are not university degrees and they're not recognized by most professional associations and they're not eligible for graduate school," he says. "It's natural for colleges to want to credential creep, but I do have some ambivalence about it...there's some confusion about what a degree means when you start using terms like applied degree and proliferating them."

After a review of eight pilot projects over the past year, Advanced Education and Career Development Minister Clint Dunford announced that applied degree programs would become a permanent part of the college system. They are designed to meet specific industry demands for graduates with "advanced career or technical preparation," he says. Areas of specialization include petroleum engineering technology, forest resources management, communications, and small business and entrepreneurship.

"The notion is to make [the applied degree] very directly related to the workplace," says government spokesperson Murray Lindman. "We're trying to look more specifi-

cally at something reflective of the job content ...but we do have to get our lexicon straight. We're introducing a new parchment in Alberta, and we have to make sure people understand it's something distinct and separate from an academic degree."

Lindman says Dunford will be "somewhat parsimonious" in deciding which program proposals receive the applied degree designation. Programs must be driven by a marketplace analysis and are not meant to replace the certificate and diploma programs already in place, he says.

The applied degree programs will also be subject to a rigorous review process, says Lindman, including ongoing consultation with representatives from Alberta's universities, colleges and technical institutes. The programs now have six instructional semesters and two work experience semesters. Employers share some of the costs of the programs and contribute to their design.

If it were up to Owram, however, he says a clear diploma/degree distinction is still the best solution to the confusion. "But I think we're far too far down this road for that in all realism to happen ...The other way we can try to work with the colleges is on a transfer system where students do university transfer courses and build from the colleges into a degree program." ■



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U of A Press tackles Canadian dictionary for the deaf

By Geoff McMaster

When the idea for a Canadian dictionary of sign language was tossed around 16 years ago, the deaf community agreed it was long overdue. While signing in this country is rooted in American Sign Language (ASL), there are pronounced regional differences and idiomatic nuances.

That's why thousands of people across the country, both deaf and hearing, were anxious to see an accurate reference work. Besides, how hard could it be to come up with a few thousand illustrations and definitions?

"It was pure hell," says Cathy Dolby, one of four project editors of the Canadian ASL Dictionary, scheduled for release in 10 months. What began as a modest proposal grew into a monster, says Dolby, a teacher at the Alberta School for the Deaf.

In the end, the editors say they've surpassed anything produced in the American market for detail and analysis of syntax. The final product will contain 10,000 entries, fully explained with regional variations and special sections for calendar terms, pronouns, geography and religion.

It's an enormous achievement, but Dolby confesses she'd never do it again. "Not a hope in hell," she says. "When we did the English part, we were all otherwise employed, so we were doing things like getting up at 4 a.m. on Saturday mornings to work all day on the dictionary, Sundays

as well, and evenings. We had no concept of how much was involved."

The dictionary received government and private grants of about \$250,000, but most of the writing falls to Dolby and another editor, Carole Sue Bailey, both volunteers. "We were two little people doing the work of a whole publishing company," says Dolby.

It didn't help that the project was cancelled midstream three years ago when its publisher, Copp Clark Pitman, was taken over by Addison-Wesley. Fortunately the University of Alberta Press decided to pick it up, and "since then it's been moving along a lot better," says Dolby.

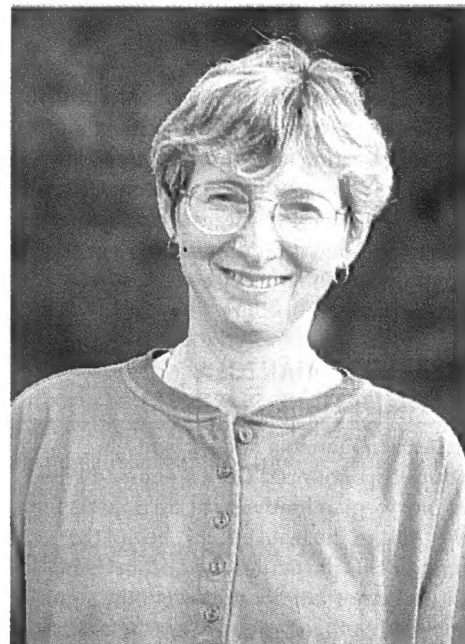
Students at the Alberta School for the Deaf have contributed some clerical work and acted as models for the illustrators. They say they are excited about the dictionary because it will serve as an important bridge between the worlds of the deaf and the hearing.

"This gives an introduction to sign language to the hearing community from a deaf perspective," says Grade 12 student Emil Kvarnberg.

The pain and frustration of translating the visual to the verbal, however, has been acute. Signing has its own grammar, word order and logic. The biggest obstacle for the team of eight illustrators, who have little to no knowledge of signing, is that illustrations are static. Signing is not.

"They are two different languages, so you're never going to have perfect co-relations," says Charmaine Letourneau, past president of the Canadian Cultural Society of the Deaf who has spearheaded the dictionary from its inception. "When we started ... we had to explain the sign but also the movement in the sign."

Illustrators working on diagrams spent hours studying videotapes to understand the "dimension and depth" of the language. The same positioning of the hands can take on different shades of meaning depending on how fast, and from which direction, the hands are moving. To complicate things fur-



Cathy Dolby



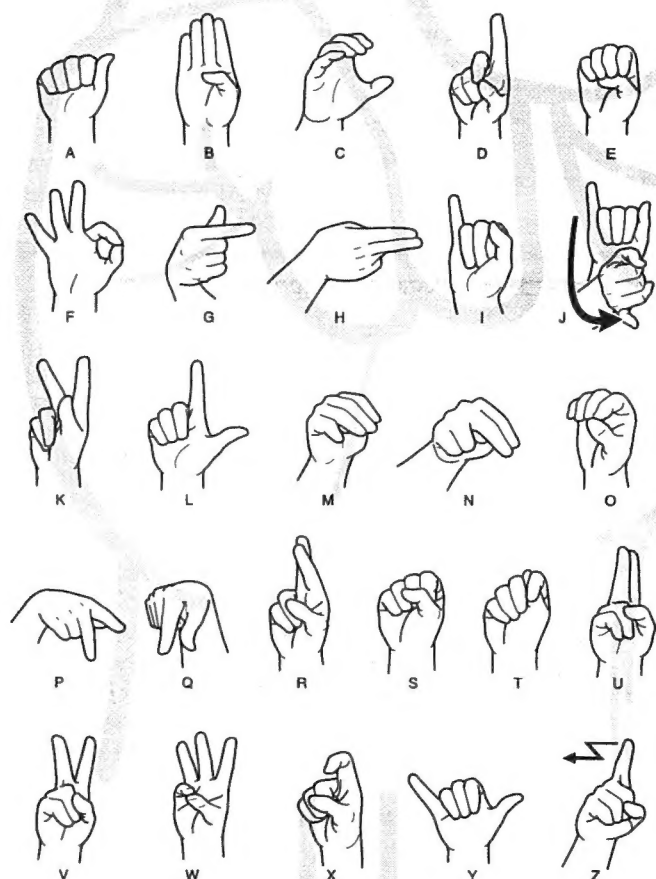
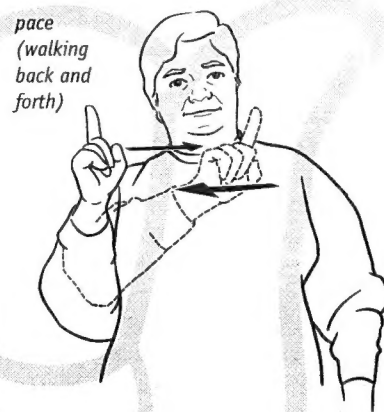
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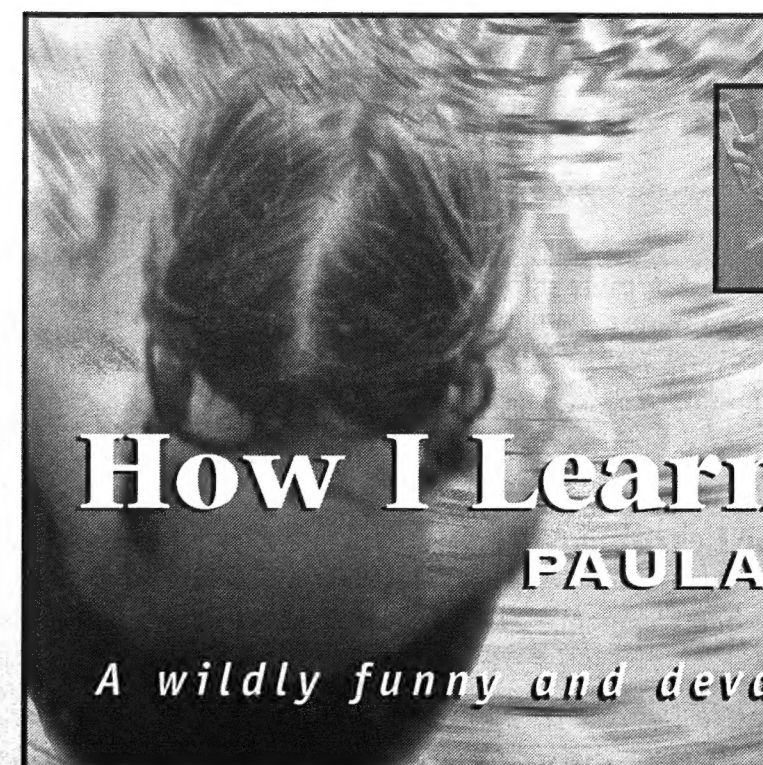
ther, most of the meaning is expressed through facial expression.

"All adverbs are on the face," says Dolby. "The tilt of your head, and even the movement of your mouth matters. When deaf people are talking about something big, for example, they don't articulate the word... you see it in their mouth and in their eyes."

The dictionary aims to convey as much of the complexity of the signing as possible, say Dolby and Letourneau. But they're quick to caution that it won't provide easy access to a rich and vibrant culture.

"We don't want for one moment for anybody to pick up the dictionary and think it's going to teach them how to communicate with deaf people, because it won't. The same sign may not be appropriate in all situations, she says, "and the only way you can see the difference and know the difference is to spend a lot of time in the community where people are using the language."





JANE SPIDELL

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The pain of Pinochet lives on

Chilean-Canadians at the U of A share their stories

By Lucianna Ciccocioppo

You could almost picture it: a domino effect rippling throughout Chilean communities around the world, their faces mirroring incredulity, anger, fear and pain all over again. They had just heard that General Augusto Pinochet had been arrested, detained in London by a Spanish judge hoping to extradite the former dictator to Spain on charges of genocide, torture and terrorism.

"I was so happy, I couldn't believe it. Justice may finally be served. I was waiting for this for 25 years," said Ruth Morales, a clerk/typist in the Faculty of Extension. Morales wasn't jailed or tortured but her husband, Osvaldo, was. "I was tortured mentally not physically," she says.

Osvaldo died Mar. 14, 1992 in Edmonton, far from the terror he left in Chile more than 20 years ago. He had been in a coma for four days before his death. "They [the Pinochet regime] killed him. They tortured him so much he had a blood clot in his head," said Morales. "The autopsy report said the blood clot was old."

Osvaldo was a supporter of the socialist government of the time, democratically elected and led by President Salvador Allende. Osvaldo was a hospital administrator and was arrested in his office in September of 1973 by the military, on charges



Ruth Morales and Dr. José Varela remember the dark days of the Chile they left behind.

he was shooting at them during Pinochet's takeover. Over three-and-a-half months, he was beaten and kicked with the butt of shotguns. During questioning, Morales said the military thought her husband was mocking them, and they strung Osvaldo up by his hands tied behind his back.

"I received a letter from him, telling me he was still alive, but I knew something was not right," said Morales, "because the writing was strange." Osvaldo's shoulders had dislocated. He was 32 years old at the time.

By December, he was free, but soldiers continued to threaten him with detainment. "He had nightmares for a year, screaming and punching walls. The kids

remember it, too," said Morales. Osvaldo left for Argentina a year later, and in September, 1975, Morales and the three children joined their father in Edmonton. "I don't want him [Pinochet] to go to jail. I want him to suffer," said Morales.

"I feel really ashamed," said Aurora Aguilera, "because another country had to seek justice, not our own country." Aguilera and her husband at that time were lucky. The clerk/typist in Faculty of Extension's educational media services said a friend, who was in the military, saw their name on the blacklist and warned they would be arrested.

"I was working with the party of the president. I was very involved in my community," said Aguilera. "We had to leave within 24 hours. I left my son with my parents in 1973. I applied in Argentina to go to Canada." Four years later, their son joined them in Alberta, the place to be because of the availability of jobs. "We didn't know about the weather. We were just so happy to get out."

The Morales and Aguilera families literally locked their homes in Chile, turned their backs and left the turbulent country with only their clothes. They arrived in a cold, northern place eager to welcome them to the city, but not neces-

sarily into the hearts of its people. Like many immigrants before them, they found it difficult to start again and to learn a new language. Loneliness for their far-away families—the parents, grandparents, siblings and cousins left behind—set in.

Maggie Rojas, also a clerk/typist in extension, calls herself "special" because she was fortunate to join both her parents and brother in Edmonton in 1978. "My dad had political problems. He was jailed for three years and beaten," said Rojas. After his release, he made an application to come to Canada. But not before another detainment. "He went from jail to jail to the airplane," said Rojas.

By the time Rojas arrived, the family was settled in a furnished apartment and her father was working—not as school principal, like he was in Chile, but at the Lilydale factory. "My dad suffered. I remember he was waiting for the bus and it was cold. But there was no bus because there was a strike, and he didn't know." People didn't have much patience then for immigrants, said Rojas.

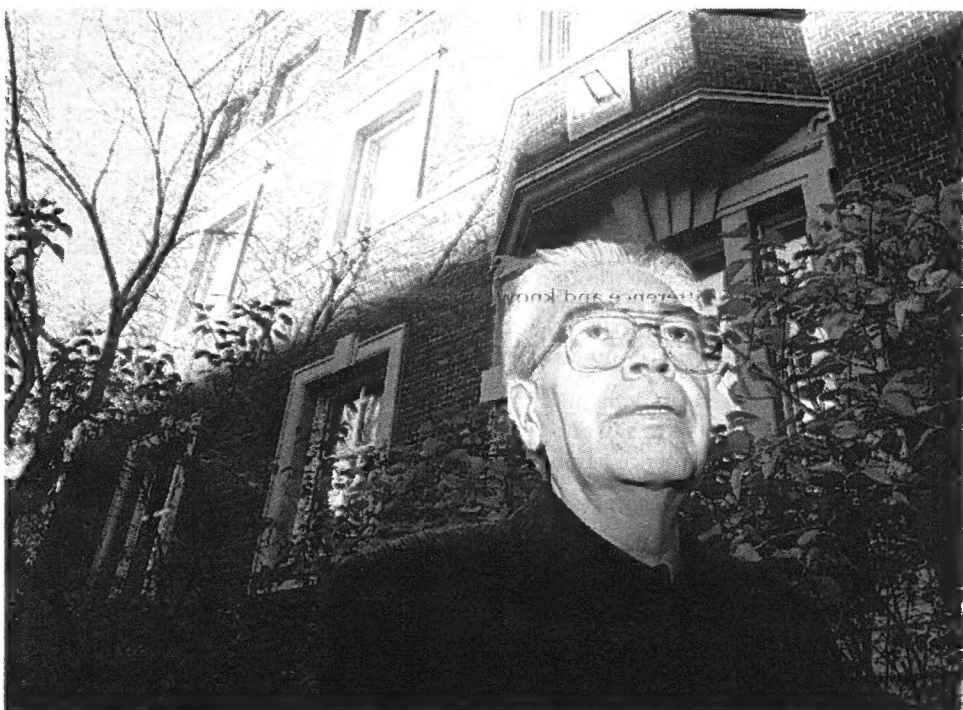
These women don't actually believe the arrest of Pinochet will lead to anything. And neither does Dr. José Varela, associate professor of Spanish, culture and literature. "The arrest will not accomplish much in practical terms. But from a psychological point of view, it's an important step. Even at the international level, it sends a message to other dictators: 'Beware, you won't get away with it. Somehow, some way, you will have to pay.'"

Varela left Chile after the military shut down the department where he was working at the University of Chile in Valparaíso. One by one, his colleagues began to disappear.

"Everyday, the circle was closing. We were really, really afraid," said Varela. He and his wife at that time left for Quebec City, where he finished his PhD at Université Laval.

Like his campus colleagues, Varela was taken aback at the news of Pinochet's arrest but he has already tempered his enthusiasm for justice. "I know after awhile everything will return to normal. It will be news for a week."

But not for Ruth Morales. She carries the pain of her husband's ordeal in her heart and the anger in her eyes. "If it were up to me, there would not be one inch left of Pinochet's body." ■



Dr. José Varela: "Everyday, the circle was closing. We were really, really afraid."



Ruth Morales: "Justice may finally be served. I was waiting for this for 25 years."

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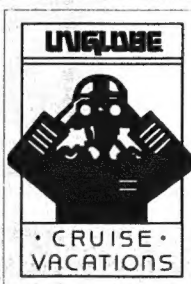
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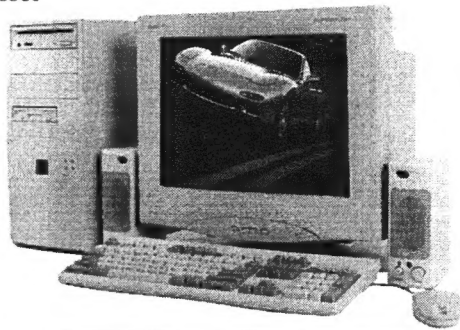
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The fifth in a special 90th Anniversary series profiling outstanding U of A professors

Watson set the stage for a generation of Canadian writers

Sheila Doherty Watson (1909-1998)

By Geoff McMaster

She wrote one of the most inspiring Canadian novels of the 20th century, but Sheila Watson hesitated to call herself a writer. Only three short stories appeared before the publication of her revolutionary work, *The Double Hook*, and just one other novel (written earlier) and several short stories would follow. And yet never has a woman of so few words made such an impact on Canadian literature.

As Stephen Scobie wrote in a 1975 tribute to the reserved, self-effacing artist who appeared to live on coffee and cigarettes, "there is no point in listing the names of those who have been influenced by her; such a list would have to include every serious writer in Canada for the last 20 years." According to Dr. Frank Davey of the University of Western Ontario, *The Double Hook* was "considered by many to be the first truly modern Canadian novel."

However great her contribution to literature, Watson was also one of the English department's most provocative instructors during the '60s and '70s, teaching "heaven knows how many students to read with deep pleasure and very critically," says Dean of Arts and former student Patricia Clements. "The most extraordinary thing about Sheila's teaching style was that she was not eloquent, she was not always coherent. She got you to invent the meaning."

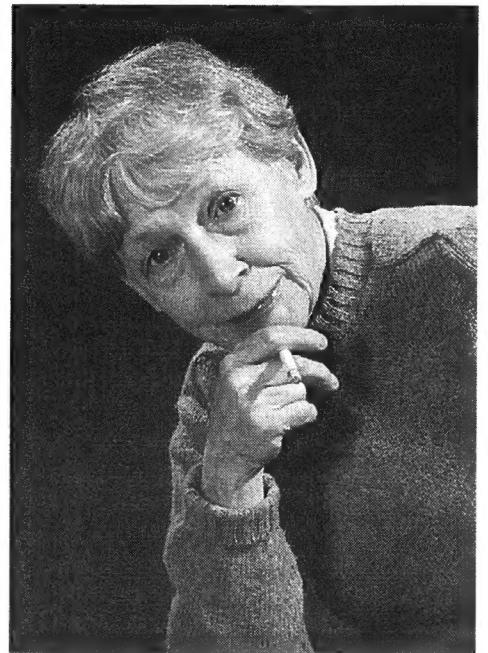
"Sheila would get half way through a sentence, would fix you with those blue eyes and say, 'you know what I mean?' So you would nod and say, 'yes,'" even though you rarely did, says Clements. "She would have the nerve to sail out there on the wings of a sentence before she had it entirely figured out."

In true modernist fashion, Watson was reserved about the facts of her own life. She rarely gave interviews, believing that literature should speak for itself, that the details of a writer's life only obscure and confuse the relationship between reader and text. Some of those details, however, are difficult to ignore.

Shirley Martin Doherty was born in New Westminster, B.C., the second of four children. Her father was the superintendent of the Provincial Mental Hospital in New Westminster, and the Doherty family lived inside the "self-contained community" of the institution, housed in a tower reached by a circular stairway. For the first 11 years of her life, Sheila was exposed to a range of human nature few see at so young an age. "It made the absurdity of life seem normal to me," she said in an interview with the *Western Catholic Reporter*. "The irrational was rational...one got used to people being terribly varied."

In 1931 Watson received her Honors English degree from the University of British Columbia, and in 1932 obtained her Academic Teaching Certificate. Her M.A. on 18th-century essayists Joseph Addison and Richard Steele followed in 1933. For the next 10 years Watson took on a variety of teaching assignments and taught both primary and high school in several B.C. communities. In one of these, a tiny Cariboo community between Williams Lake and Ashcroft on the Fraser River, she was put in charge of an ungraded class of nine pupils. This community would become the setting for *The Double Hook*.

Sheila Doherty married the poet Wilfred Watson in 1941. The couple moved to Toronto after the war, where she taught at Moulton College and enrolled in



Sheila Doherty Watson

graduate studies part time at the University of Toronto. She also worked as a sessional lecturer at UBC, and spent a year teaching high school in Powell River, B.C. before moving to Calgary in 1951. Here she wrote *The Double Hook* "during one of the few years when I wasn't teaching." It was finally published in 1959 at the encouragement of Dr. Frederick Salter. Although some initial reviewers regarded the novel's dense language and complex symbolism as disastrous, it has since become a fixture of Canadian literature courses across the country and has also been translated into several languages.

"I didn't want to write a local color or what you might call a regional novel," Watson told George Melnyk in 1975. "The form of *The Double Hook* was chosen to give a sense of immediacy, of the intensity of emotion...that threw me into the dramatic dialogue form of *The Double Hook*."

Watson joined her husband at the University of Alberta's English department in 1961, and her reputation as a teacher and scholar began to attract numerous graduate students from across Canada. In 1971 she co-founded *White Pelican: A Quarterly Review of the Arts*, with Stephen Scobie, Douglas Barbour, John Orrell, Norman Yates, and Dorothy Livesay. The journal ran for 18 issues over 41/2 years, establishing itself as a forum for some of the most progressive writing and graphics in Canada.

"She and Wilfred formed the unquestioned centre around which the literary life of the city revolved," writes Scobie. "Wilfred was writing prolifically—plays, poems—but even Sheila's silence commanded attention and respect."

Two slim collections of her short stories were published during her lifetime, along with some of her scholarly and critical essays. After lying in a desk drawer for 50 years, her first novel, *Deep Hollow Creek*, finally appeared in 1992. More conventional in form, it is also set in the Cariboo country of B.C.

Sheila Watson died in February of 1998 at the age of 88, following complications from hip surgery. Her husband Wilfred died a few weeks later. ■

UNIVERSITY
1998
1908
of ALBERTA



Golden Bears fullback permanently sidelined

By Dan Carle

If Academic All-Canadian and national championships are the yin of Golden Bears and Pandas athletics, then Ryan Williams and others like him are tragically the yang.

It was Mirka Pribylova, you remember, who finished her fifth year of eligibility in March of this year, in storybook fashion, marching over all comers to lead Pandas volleyball to a fourth national title.

It is Williams who reels after unceremoniously being cut from his fifth year.

Pribylova closed the book. Williams' pages flutter.

The 25-year-old still considers himself a Golden Bears fullback, though he will never again take a snap. A degenerative neck condition, aggravated in the first week of the season and brought about largely through repeated blows to the head, has worsened and placed Ryan Williams on the depth chart in Never Neverland.

"I'm still having a tough time accepting the fact I'm done," Williams said from the sidelines at practice October 14. He has been to practice every day since suffering a bilateral—down both sides of the body—"burner," which is basically an unpredictable feeling of temporary paralysis when the nerves of the neck are jarred, or scarred. His are both.

Doctors say if he plays football again, and suffers another burner, he could lose all feeling in his legs. Next time the paralysis will not be temporary.

"I don't know if I can explain what it's like. It's hard. I have a hard time not being part of it. I don't know what to do with myself when I'm out here, to be quite honest," he said, eyes swollen.

Williams is six feet and 230 pounds. His role on the field was to punish, not run and catch and be somehow graceful. His football was smashmouth. In fact, if he were a hockey player, Williams would be a fourth-liner with the guys who live in the corners, the guys you want on your side.

Stepping aside and away from the fury on the field has meant first-and-ten on a range of solo emotions.

"When I hear the national anthem on Saturday my adrenaline still goes through the roof. Then I stand on the sidelines.

"It just keeps going through your mind—what if this, what if that."

While Sam Stetsko and Darcy Park and Kris Fedun and Sean Newton played their final home game October 17—the four-quarter crown to a five-season career—

Ryan Williams stood, watching, in street clothes.

"You move on. How I do that right now is hard to say. I still have the mind-set that I have to prepare every day. I still watch what I eat for game-day. I wouldn't even think of having a beer during the week right now because, you know, game day is Saturday."

It was game day. It is game over. While Williams wars, he knows the call was the right one; after all, there are many tomorrows, days to live-out pain free and profitably.

"I'll be doing a number of different things with corporate communications consulting," he said of a job waiting in Vancouver, his home, after he graduates. "You have to be at the top of your game, and you have to be ready for game day with those things. You have to know your stuff, and be able to perform."

However, school and jobs and money probably weren't on his mind the day his pals were introduced and all he could do was shake their hands, not go to war.

Today Ryan Williams walks but his mind races.

"It's going to be a long time before I know what it means not to be a football player anymore."

• The University of Alberta charted its first CWUAA title of 1998-1999 at the first available opportunity. The Pandas field-hockey team won its second conference title in three seasons, and hosts the 1998 national tournament starting Thursday at Lister Turf.

• The Pandas have never won a CIAU title in their 28-season history, though the team has charted four national medals in the 1990s including last season's national silver, which the team hopes to improve upon this season. Alberta, the number-two seed in the six-team tournament, plays UBC at 2:00 p.m. Thursday and UNB at 3:30pm Friday. The national semi-finals are Saturday at 12:00 and 2:30 p.m.. Sunday the national championship will be played at 1:00 p.m. with the bronze medal game scheduled for 10:00 a.m.

• Though the interuniversity season is two months old, already the University of Alberta has charted four number one ranked teams in the CIAU. Pandas cross country, Golden Bears hockey, and Golden Bears and Pandas soccer have each held national number one in the CIAU Top 10, which are weekly national rankings in each sport.

»» quick »» facts

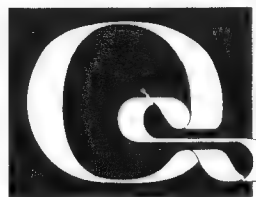
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Understanding Animal Welfare:

Common Sense, Uncommon Science

David Fraser, Professor of Animal Welfare

Faculty of Agricultural Sciences and Applied Ethics
The University of British Columbia

November 3, 1998

4:30 pm • 2nd Floor Banquet Room, Lister Hall

David Fraser has had a life-long interest in animals. He grew up on a farm in the Niagara peninsula and studied animal behavior at the Universities of Toronto (BA in psychology) and Glasgow, Scotland (PhD in zoology). From 1971 to 1975 he was on the staff of the University of Edinburgh conducting research on the behavior and management of farm animals. From 1975 to 1981 he worked in wildlife research, specializing in the behavior and management of moose. From 1981 to 1997 he was a research scientist at the Canadian

1998 AWARD RECIPIENTS

Warren J. Gallin

Department of Biological Sciences

Sandra Graham

Department of Surgery

Donald G. McKay

Biosciences Animal Service

government's Central Experimental Farm in Ottawa where he worked on behavior, management, and animal welfare problems of pigs, and other farm animals. Since October 1997 he has been professor of animal welfare, cross appointed between the Faculty of Agricultural Sciences and the Centre for Applied Ethics, as part of the NSERC Industrial Research Chair in Animal Welfare.

University of Alberta
Office of the Vice-President
(Research and External Affairs)



talks

Submit talks to Tamie Heisler by 9 a.m. one week prior to publication. Fax 492-2997 or e-mail at public.affairs@ualberta.ca.

ALBERTA CANCER BOARD

November 3, 7:30 pm

Naresh Jha, "Can We Prevent Cancer?" Zane Feldman Auditorium, Cross Cancer Institute, 11560 University Avenue.

ANIMAL WELFARE

November 3, 4:30 pm

David Fraser, UBC, "Understanding Animal Welfare: Common Sense, Uncommon Science." 2nd Floor Banquet Room, Lister Hall

ARTS

November 3, noon

Judith Maxwell, Canadian Policy Research Networks, "Improving Public Policy Research in Canada." 5-15 Tory Building

BIOLOGICAL SCIENCES

November 12, 4:00 pm

David Shorthouse, "The diversity and succession of wandering spiders on Inco Ltd. Tailings Habitats." 1 Tory Breezeway

CAMPUS ASSOCIATION FOR BAHAI STUDIES

November 2, 7:00 pm

William Hatcher, Laval University, "L'amour, le pouvoir, et la justice." Co-sponsored by L'association canadienne-française pour l'avancement des sciences and Faculté St Jean. Faculté St Jean.

November 3, 2:00 pm

William Hatcher, Laval University, "Causality, Composition and the Origin of Existence: A Logical Proof of the Existence of God." 1-28 V-Wing

November 3, 7:00 pm

William Hatcher, Laval University, "Is there a Spiritual Solution for ALL the World's Social Problems?" Tory Lecture Hall 11

CELL BIOLOGY AND ANATOMY

November 9, 10:00 am

Sean Egan, University of Toronto, "Ese proteins are conserved regulators of Endocytosis." 5-10 Medical Sciences Building

CENTRE FOR INTERNATIONAL BUSINESS STUDIES

October 30, 3:00 pm

Brij Kumar, University of Erlangen, Germany, "German Companies in China: Strategies and Success Factors." 4-16 Business Building

CENTRE FOR RESEARCH IN CHILD DEVELOPMENT

October 30, 1:00 pm

Donald Mabbott, Cross Cancer Institute, "Memory Functioning in Children with Temporal or Extratemporal Lobectomies." P-128 Biological Sciences Building

CHEMICAL & MATERIALS ENGINEERING

November 5, 3:30 pm

Raj Rajagopalan, University of Florida, "Optical Traps & Levitating Particles: Application to Colloidal Force Measurement and Microrheology." 343 Chemical & Materials Engineering Building

CHEMISTRY

November 4, 11:00 am

Richard Zare, Stanford University, "Detailed Study of the Cl + CH₄ and Cl + C₂H₆ Reactions" V1-07 Physics Wing

November 4, 7:30 pm

Richard Zare, Stanford University, "The Search for Life on Mars." Myer Horowitz Theatre

November 5, 11:00 am

Richard Zare, Stanford University, "Photofragment Helicity Caused by Matter-Wave Interference from Multiple Dissociative States." V1-07 Physics Wing

CIVIL AND ENVIRONMENTAL ENGINEERING

November 16, 11:00 am

Paul Hamblin, National Water Research Institute, "Simulation of Vertical Transport in a Mining Pit Lake." 325 Civil/Electrical Engineering Building

COMPUTING SCIENCE

November 2, 4:00 pm

Kathryn Ward, DMR, San Francisco, "Information Technology Enabled Possibilities - Making them a Reality (including the Y2K problem)." 129 Education Building

November 3, 4:00 pm

Peter van Beek, "Constraint-Based programming." 111, V-Wing

November 4, 4:00 pm

Andreas Junghanns, "Sokoban is Easy or How to Push the Limits on Search." 111 V-Wing

November 6, noon

Craig Boutilier, UBC, "Stochastic Sequential Decision Problems: What AI Has to Offer." 619 General Services Building

November 9, 3:30 pm

Mostafa Ammar, Georgia Institute of Technology, "Putting the Cart Before the Horse: The Use of Push Technology to Build Scalable Information Delivery Services." 112 V-Wing

EARTH & ATMOSPHERIC SCIENCES

October 30, 3:00 pm

Trudy Wohleben, "The Initiation and Maintenance of an Ice Sheet at the Martian South Pole." 3-36 Tory Building

November 6, 3:00 pm

Nancy Grainger, "Eocene volcanism in the Nechako Plateau, central British Columbia." Tory Conference Room

ECOLOGY

November 6, noon

Ben Olsen, "Habitat selection in the barred owl at several spatial scales." G-116 Biological Sciences Building

November 13, noon

Ellen MacDonald, "Are riparian forests ecologically unique? An analysis at the stand and landscape scales." G-116 Biological Sciences Building

ENGLISH

November 6, 2:00 pm

Allen Renear, Brown University, Rhode Island, "Text Ontology from Below: Theories and Meta Theories from the Recent History of Text Encoding." Humanities Lecture Theatre 3

November 6, 3:00 pm

Julia Flanders, Brown University, Rhode Island, "Finding Needles in Haystacks, Seeing Forests for the Trees: Digital Resources and the Problems of Scholarly Access." Humanities Lecture Theatre 3

ENVIRONMENTAL RESEARCH & STUDIES CENTRE

November 4, 4:30 pm

Martin Sharp, "Terrestrial ice and its role in global climate change." Alumni Room, SUB

November 5, 7:30 pm

Bruce McGillivray & Bert Finnermore, Provincial Museum of Alberta, and David Langor, Canadian Forest Service, "Biodiversity in the Prairie Provinces." Provincial Museum Theatre. Tickets: \$8.00

HUMAN ECOLOGY

November 12, noon

Janet Fast, "Eldercare: Who does what and at what cost?" 131 Home Economics Building

LAW

November 2, noon

John McLaren, "The Rule of Law in New South Wales and Upper Canada: A Beacon of Liberty or Elitist Icon?" 448 Law Centre

November 5, 7:30 pm

John McLaren, "Religious Conscience, the State and the Law in Canada: From Accommodating Confessions to Challenges of Pluralism in the Secular State." 231 Law Centre

MODERN LANGUAGES

November 9, 7:30 pm

Charlotte Strandgaard, Danish author, "The Socially Conscious Writer." Senate Chamber, 3rd Floor, Arts Building

MOLECULAR BIOLOGY AND GENETICS RESEARCH GROUP

October 30, 3:30 pm

Don Moerman, UBC, "Initial steps in sarcomere assembly and muscle development in C. elegans." G-116 Biological Sciences Building

November 6, 3:30 pm

Joel Weiner, "How folded proteins are translocated across cell membranes." G-116 Biological Sciences Building

NATIVE STUDIES

November 3, noon

Thelma Oliver, Government of British Columbia, "The Role of the BC Government in the Delgamuukw Case and its Aftermath." 231 Law Centre

November 3, 3:30 pm

Thelma Oliver (BC), Larissa Behrendt (Eualaeui Nation, Australia), Anna Yeatman (Australia) & Tracey Lindberg, Athabasca University, "Rethinking the Postcolonial: Indigenous Peoples, Land Claims and Co-existence." Humanities Lecture Theatre 3

NURSING

November 12, noon

Vicki Strang, "Community Based Home Care: How it Influences Clinical Issues." 6-102 Clinical Sciences Building

PERINATAL CLINICAL RESEARCH

November 3, noon

Ruth Elliott, "Incidence of Neonatal Abstinence Syndrome (NAS) at a large urban hospital: A collaborative clinical research study." B762 Basement Classroom, Women's Centre, Royal Alex Hospital

events

PHILOSOPHY

October 30, 3:30 pm
Jeff Pelletier, "A Brief History of Natural Deduction." 4-29 Humanities Centre
November 13, 3:30 pm
Catherine Wilson, "Morality as a Naturally Occurring Phenomenon." 4-29 Humanities Centre

PHYSIOLOGY

October 30, 3:30 pm
Stephen Archer, "The Effects of Nitric Oxide and Hypoxia on Vascular Tone - the Opening and Closing of K⁺ Channels." 207 Heritage Medical Research Centre

PHYSIOLOGY, CELL & DEVELOPMENTAL BIOLOGY

November 4, noon
Jim Johnson, "Involvement of Intracellular Ca⁺⁺ stores in basal and stimulated hormone secretion." B-105 Biological Sciences Building

PSYCHOLOGY

November 3, 4:15 pm
Harold Stevenson, University of Michigan, "Learning from other Cultures; Achievement and Society - Part I: Coping with Individual Differences: East Asia and the West." CW-410 Biological Sciences Building
November 4, 4:15 pm
Harold Stevenson, University of Michigan, "Learning from other Cultures; Achievement and Society - Part II: The Successes and Failures of Tracking in Different Cultures." CW-410 Biological Sciences Building

RENEWABLE RESOURCES

November 5, 12:30 pm
Vic Adamowicz, "Forest Management and Non-timber Values: Opportunities and Challenges." 2-36 Earth Sciences Building
November 12, 12:30 pm
Noorallah Juma, "The Pedosphere and its Dynamics: A Systems Approach to Soil Science." 2-36 Earth Sciences Building

ST JOSEPH'S COLLEGE

October 31, 9:00 am - 1:00 pm
Howard Van Till, "The Fully-Gifted Creation Perspective: A Refreshing Alternative to the Tiresome Creation/Evolution Debate." St Joseph's College. Tickets: \$10/adults, \$5 students. Call 492-7681 to register.

UNIVERSITY TEACHING SERVICES

October 30, 2:00 pm
Beverly Cameron, University of Manitoba, "Learning and Teaching Preferences." 281 CAB
October 31, 9:00 am
Beverly Cameron, University of Manitoba, "Learning and Teaching Preferences - for graduate students." 281 CAB
November 2, 3:00 pm
Rene Day and Beverly Williams, "Reshaping Professional Education" 281 CAB
November 3, 3:30 pm
Stanley Varnhagen, "Removing a Blindfold on Instruction: Using Formative Evaluation Tools for Instructional Refinement." 281 CAB
November 5, 2:00 pm
Josie Tong, "Information Literacy Skills for Effective Teaching and Learning, Part 2" Multimedia Centre, Coutts Library, Education South
November 9, 3:00 pm
Brenda Gustafson, "Designing Course Content to Enhance Student Learning." Enrollment limited to 30. 281 CAB
November 10, 3:30 pm
Brian Nielsen, "Issues and Techniques for Marking Assignments and Papers." 281 CAB
November 12, 2:00 pm
Barbara Paulson, "Stress Management: Getting Started." 281 CAB

ACADEMIC STAFF MEMBERS, UNDERGRADUATE AND GRADUATE STUDENTS NEEDED TO SERVE ON SELECTION COMMITTEE FOR UNIVERSITY PROFESSORS

The vice-president (academic) and provost is striking a selection committee for university professors.

The members of this committee include the vice-president (academic) and provost or delegate, the vice-president (research and external affairs) or delegate, three members from categories A1.1, A1.5 or their counterparts in A1.6 elected by GFC, and two students, one of whom will be an undergraduate student and the other a graduate student, elected by GFC. The committee will choose its own chair.

The GFC Nominating Committee is now seeking nominations for three members from categories A1.1, A1.5 or their counterparts in A1.6 elected by GFC, one undergraduate student and a graduate student, all of whom are to be elected by GFC.

DRAMA

STUDIO THEATRE

November 5-14
"The Collected Works of Billy the Kid" by Michael Ondaatje. Directed by Kim McCaw. Timms Centre for the Arts. For show times, tickets and information, call 492-2495.

EXHIBITIONS

BRUCE PEEL SPECIAL COLLECTIONS LIBRARY

to December 31
"Adversaria: Sixteenth-Century Books and the Traces of their Readers" and "The Book of Nature: the Eighteenth Century & the Material World" Hours: Mon-Fri 8:30-4:30 pm

FAB GALLERY

October 27-November 8
An exhibition of works by Maria Anna Parolin/James Long, MFA printmaking. Gallery hours: Tues to Fri 10 to 5, Sun 2-5 pm. 1-1 Fine Arts Building

HUMANITIES CENTRE

RUTHERFORD SOUTH ENTRANCE HALL

October 26-November 13
The Life and Works of Karen Blixen (a.k.a. Isak Dinesen). Sponsored by the Royal Danish Embassy.

MUSIC

DEPARTMENT OF MUSIC

October 30, 8:00 pm
Visiting Artist Recital featuring Jean Paul Sevilla, pianist. Programme will include Mendelssohn, Liszt, Fauré and Chabrier. Convocation Hall, Arts Building. Admission: \$10/adults, \$5/students & seniors

November 1, 3:00 pm
Master of Music Recital featuring works of composition major, Graham Kidd. Convocation Hall, Arts Building. Free admission.

November 1, 8:00 pm
Master of Music Recital: Paul Guise, choral conducting major. Convocation Hall, Arts Building. Free admission.

November 2, 12:10 pm
Music at Noon, Convocation Hall Student Recital Series featuring students from the Department of Music. Free admission.

November 3, 8:00 pm
Visiting Artist Recital featuring Kevin MacMillan, baritone. Convocation Hall, Arts Building. Admission: \$10/adults, \$5/students & seniors. Co-sponsored by the Richard Eaton Singers.

November 7, 8:00 pm
Richard Eaton Singers conducted by Leonard Ratzlaff, present "Belshazzar's Feast" by William Walton and "Mystical Songs" by Vaughn Williams. Winspear Centre. For tickets call 428-1414.

November 8, 8:00 pm
Concert featuring the University of Alberta Academy Strings & the University of Alberta Madrigal Singers, Tanya Prochazka and Leonard Ratzlaff, conductors. Programme will include Mozart, Finzi, and Bach. Convocation Hall, Arts Building. Admission: \$7/adults, \$5/students & seniors.

COMPUTING SCIENCE

NINTH ANNUAL COMPUTING SCIENCE DAYS

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These rates are per night and are exclusive of convention conference rates which are established by conference/convention organizers. Rates valid to December 31, 1998 unless otherwise noted, taxes not included.



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delivered by

Professor John McLaren, University of Victoria

Wilbur F. Bowker Visiting Professor, University of Alberta

Thursday, November 5, 1998, 7:30 pm

Room 231 Law Centre

Reception to follow

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positions

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HEALTH SCIENCES COORDINATOR

The Health Sciences Office is a new entity within the University of Alberta to support the Coordinating Council of Health Sciences (CCHS) and senior administration at the university where matters of interest to several health science faculties are involved.

Reporting to the executive director of Health Sciences, the Health Sciences coordinator will be responsible for the following:

- Gathering and analyzing information from several faculties to support interdisciplinary and/or multi-faculty initiatives;
- Developing draft policy positions for review on a wide range of matters pertaining to health sciences education and research where internal university decisions are required or where input to governmental (e.g., new legislation) and other external processes (e.g., workforce requirements) is in order;
- Serving as an alternate to the executive director on a wide range of committees both within the university and externally;
- Overseeing the work of the administrative assistant with respect to financial and budgetary responsibilities of the health sciences office;
- Developing a communications strategy to publicize new interdisciplinary activities at the university, including overseeing the updates to the health sciences Web site, preparing publication ready documents and presentation materials;
- Supporting the work of specific committees/task forces which are charged with developing new approaches to interdisciplinary education and research;
- Supporting the executive director in the administrative functions required to support the centres and institutes falling under the jurisdiction of CCHS, including business plan development, budgeting and space planning.
- Supporting the executive director in the administrative functions required to support CCHS, including agenda development, tracking progress on initiatives and facilitating follow up action.

The health sciences coordinator will have a good understanding of health sciences education and the health service system. Exceptional analytical, writing and interpersonal skills are required. Experience in developing policy papers and working in a matrix organizational environment is essential. This is a one-year term position with a possibility of renewal or conversion to a continuing administrative/professional officer (APO) position. The salary range for this position is \$35,000 to \$52,000.

Interested persons are invited to submit applications by Friday, November 13, 1998 to

Dr. Don Philippon
Executive Director of Health Sciences and
Professor of Organizational Analysis
2-141 Clinical Sciences Building
University of Alberta
T6G 2R7

TELECOMMUNICATIONS MANAGER DEPARTMENT OF PHYSICAL PLANT

The Department of Physical Plant requires an experienced and knowledgeable manager to provide telecommunication services for the University of Alberta. The Telecommunications Division provides services that are supportive to the university's mission to provide high standards of teaching, research and learning.

The Telecommunications Division is responsible for the operation of centrex voice services working within the main campus facilities and the voice networks installed in other university facilities. Additional responsibilities include the management of a long distance voice network; voice mail services; validation of inventory and billing activities; development of the university's telecommunications directory; coordination of the installation of cabling networks within the university's infrastructure; training on the effective use of the systems; and the operation of the university's switchboard functions.

The Telecommunications Manager will liaise with the university's academic, administrative and support units to ensure services meet customers' requirements and expectations. The manager, within the parameters of the Telecommunications Services Alliance, will also coordinate service provision with TELUS. The manager is expected to keep abreast of future and leading edge telecommunication developments to ensure that the university can use technology to its advantage.

The division is a team-based work environment and the manager is expected to provide high-quality leadership and direction to the team.

Candidates interested in this position should possess the following qualifications: an appropriate diploma from a recognized post-secondary institution; at least five (5) years experience in the provision

of telecommunication services (experience in a centrex and pbx environment will be an asset); proven excellent management skills, and excellent communications skills.

This is an administrative and professional officer (APO) position with a salary range of \$37,617 to \$56,421.

Interested applicants who may have questions can contact

Kevin Moodie
Associate Director, Building Operations
Department of Physical Plant
492-4261

Resumes are to be submitted by November 13, 1998 to

Office of the Director
Department of Physical Plant
420 General Services Building
University of Alberta
Edmonton, Alberta
T6G 2H1

RESEARCH ASSISTANT MASTER OF ARTS IN COMMUNICATIONS AND TECHNOLOGY

Duration: November 1, 1998 – June 15, 1999

Duties: This position will report to the coordinator of the Master of Arts in Communications and Technology (MACT) in the Faculty of Extension, University of Alberta. The MACT is a proposed new program, which, if approved, will be distance delivered, largely via the Internet. The program approval process is partly completed, and is proceeding.

Development of courses for online (Internet) delivery is also proceeding. A grant for that purpose has been obtained.

The research assistant will assist the coordinator in identifying content experts for these courses at the University of Alberta and elsewhere, and arranging for the material selected by these experts to be assembled and prepared for the instructional design process. Some other duties related to the program development process will also be assigned.

Until March 31, 1999, the research assistant will work 0.6 time (three days a week) on the MACT program, and 0.4 time (two days a week) on another program development project within the Faculty of Extension. After March 31 she or he will work full time (35 hours a week) on the MACT.

Qualifications: University degree or degrees preferred. Demonstrated research skills in an academic environment. Good communication skills are a must. Familiarity with the field of communications studies, particularly communications technologies, would be a considerable asset, as would experience in administrative positions.

Salary: \$33,000—\$36,000 annually (pro-rated for 7.5 month contract). This is inclusive of vacation pay and benefits.

Resumé to:
Dr. Walter Archer
Assistant Dean and Coordinator, MACT Program
Faculty of Extension
Telephone: (403) 492-1858 Fax: (403) 492-1857
E-mail: walter.archer@ualberta.ca
MACT: www.extension.ualberta.ca/mct

notices

Please send notices attention Folio 400 Athabasca Hall, University of Alberta, T6G 2E8 or e-mail public.affairs@ualberta.ca. Notices should be received by 3 p.m. one week prior to publication.

CAPS OPPORTUNITIES

Career and Placement Services (CaPS) is organizing the Agriculture, Forestry, and Home Economics Career Fair for Friday, November 6, 1998 from 1-5 p.m. in the Dinwoodie Lounge, 2-000 Students' Union Building. Admission is Free. For more information, call CaPS at 492-4291.

KNOW YOUR STATUS

The Research Office with the Division of Infectious Diseases at the University of Alberta Hospital is conducting a trial with a new rapid HIV test. If you are interested in learning your HIV status and in helping them evaluate this new test, please contact the Research Office at 492-6945 for more information.

BOOK SALE

The Department of Political Science book sale will be held Nov. 5 and 6, 1998 from 10 a.m. to 4 p.m. in Tory 10-4. Bargains from \$0.25 to \$5.

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ASPEN GARDENS ESTATES. Second floor unit. Convenient to University area. Direct transit. Situated close to Whitemud trails. Desirable roomy floor plan. Good condition. \$99,900. Florence Thompson, Prudential Spencer Real Estate, 483-7170.

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HOUSESITTER: mature, non-smoking grad, pets welcome, housesitting references. Letter of agreement, Mark, 455-4351.

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Off with his hair!

United Way Campaign closes in on head shaving goal

United Way Campaign Co-chair Terry Flannigan says we're just inches away from the campus goal of \$225,000, and he's already sharpening his razor. Flannigan agreed to shave his head if we surpassed the goal by \$25,000. There are new banners and thermometers across campus charting campaign progress, thanks to Parking Services and Graphics Design Services.

Here are just some of the events that have contributed to the campaign's success:

\$1,100 - Book fair - sponsored by University Bookstores on Super Saturday Sept. 26.

\$1,232 - Campus Recreation Turkey Trot.

\$253 - Taco Time, HUB Mall, donated portion of sales on Oct. 8.

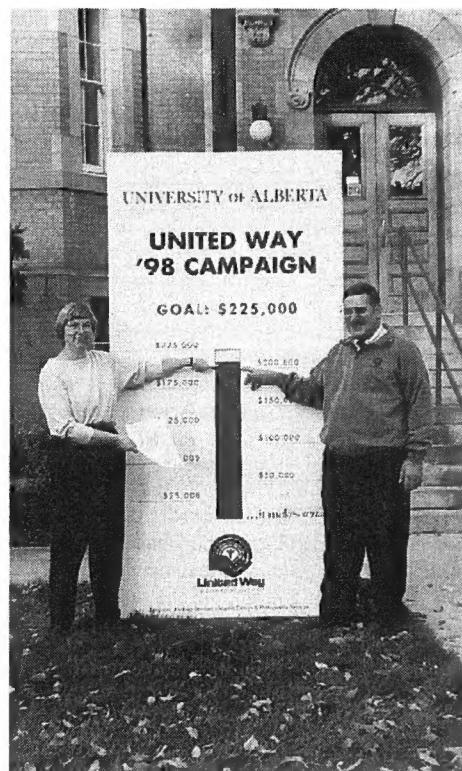
\$220 - Rakefest, Lister Hall Students Association. Students raised money raking leaves in university area Oct. 25.

\$271.40 - Graduate Students Association pizza day. Pizzas were donated from six pizza shops.

\$298.50 - Dr. Erhan Erkut of the Faculty of Business made a class donation on behalf of his class.

\$103.50 - New York Fries in HUB Mall donated a portion of sales Oct. 22.

\$161.82 - Pumpkin sales, sponsored by HUB International Market Place, Housing and Food Services and HUB Community Association.



Early Bird Prize winner Louise McBain of biological sciences accepting her two tickets to anywhere in North America on Canadian Airlines. Presenting her with the prize is 1998 United Way Campaign Co-Chair Dr. Paul Woodard, associate dean (research), agriculture, forestry and home economics.

APO Learning and Development presents

Simple Living in a Complex World: Confronting Barriers and Rekindling Vitality

Wednesday, November 25, 1998 • Banquet Room, Lister Hall

9:00 - 10:00 am	Coffee and muffins	David Irvine, keynote speaker and author of <i>Simple Living in a Complex World</i>
10:00 - 10:15 am	Greetings and announcement of Learning and Development activities	
10:15 - noon	Keynote address by David Irvine	
Noon	Luncheon	
1:00 - 4:00 pm	Interactive workshop	Among many other prizes, you could win a trip for two or a gift certificate for professional development.
4:00 - 6:00 pm	Wine and cheese - draw for grand prizes	

Please mark your calendars today and plan on attending! This event will give you an opportunity to network and socialize with your friends and colleagues and to explore new ways of personally rekindling vitality.

Cost: \$25.00

For more info, contact: Elsie Mahé • Human Resource Services • 2-40 Assiniboia Hall • Phone: 4350 • Fax: 3800 • E-mail: elsie.mahé@ualberta.ca

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circle game

By Geoff McMaster

When crop circles first caught public attention in the late '70s, it was easy to dismiss them as hoaxes. The patterns were simple and the incidents few in number.

In the '90s, however, increasingly elaborate designs have been appearing with perplexing frequency. To date, some 20,000 have surfaced around the world, the vast majority of them in England. Yet despite this proliferation of hard evidence, scientists are no closer to offering a reasonable explanation for how they got there.

Even our own Dr. Jim Butler, a popular source of wisdom on topics that range from conservation biology to political activism, admits to being

stumped. He was invited to spend the summer with a team of international experts studying as many as 198 examples of this strange phenomenon in England. For the most part, he says, they appear within a time span of 45 minutes, in the dark of night, many in populated rural areas where it would be virtually impossible to operate without being seen.

"This is not some remote wilderness—there are people everywhere," says Butler. "There are no natural phenomena that account for these things." Firmly determined to keep an open mind and resist the scientist's natural tendency to arrive at conclusions, Butler says he started out convinced the entire phenomenon was a hoax. But after a summer playing Fox Mulder, he now says humans can't possibly be responsible for all of these strange apparitions.

"I'm kind of the X-files professor, because I believe we shouldn't be afraid of something that doesn't seem to fit." He says "cereology" (the study of crop circles) has elicited a wider range of interpretations, and touched on more disciplines, than anything he's yet confronted: "It covers everything from physics to fractal geometry to theories of UFOs to vortex theory."

Alberta researcher Gord Kijek has examined a good number of crop circles, especially in 1991, a bumper year for the province with more circles (935) appearing than anywhere else in North America. Most, he says, "didn't impress me a whole lot," but one set of four in Warner, between Lethbridge and the American border, was somewhat more baffling.

"When I got into the circle, my footprints were literally the first to break the grain," says Kijek. It was so dry and brittle that everything I touched was breaking. However this was pushed down, it didn't appear anyone had physically done it."

Kijek says the stalks were also laid down in swirled layers, two of them clockwise and two counter-clockwise, so that if it were a hoax, "someone would have to have done it as a multi-stepped operation." He says he still has no idea how the circles got there and prefers not to speculate: "At this point, to me, it's still a mystery."

The skeptical view holds that pranksters are running

around laying down circles in the middle of the night, says Butler, and we just haven't figured out how they do it. Indeed in 1991, two British sexagenarians, the infamous Doug Bower and David Chorley, confessed to hoaxing about 250 crop-circle formations using string, rope and four-foot planks of wood. Problem was, they just weren't very good at it—their creations were crude and decidedly lacking in mystery.

On the other extreme are those who believe the patterns are "saucer nests" left by hovering or landing UFOs. The most famous local case occurred in

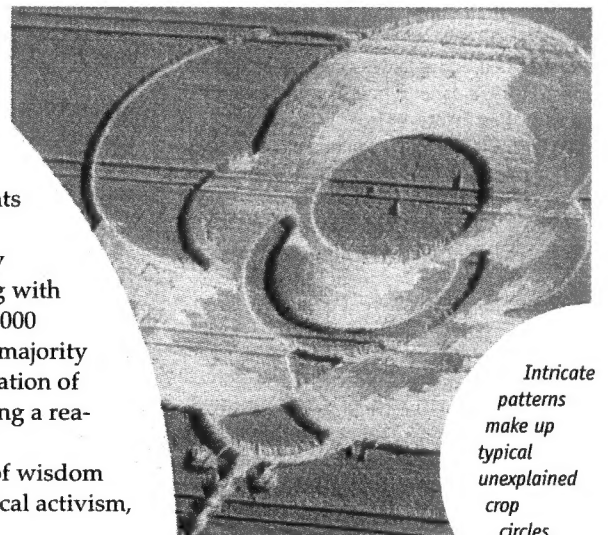
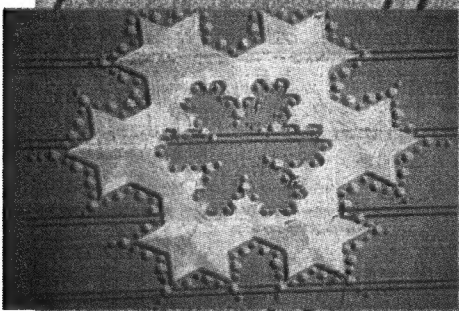
Langenburg, Sask. in 1974, involving investigations by the RCMP and a researcher from the Centre for UFO Studies. A farmer claimed to have witnessed five spinning domes rising from his field, leaving behind spiraled footprints in his crop. The case remains unsolved.

The most credible theory so far involves an electrically charged whirlwind called a plasma-vortex. Such winds, so the theory goes, are driven by convection heating, suddenly collapsing in a violent, downward burst. But as anyone who's been up close will tell you, the more elaborate circles are far too complex to have been cut by a blast of air.

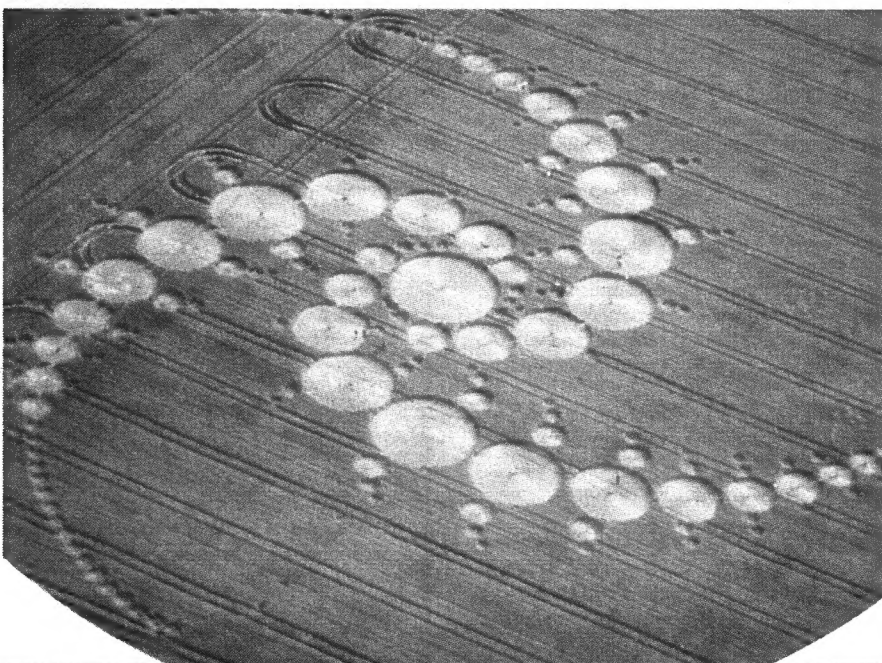
Some say the circles are signs of impending doom as we approach the millennium. Others claim the earth goddess Gaia is crying out for mercy. At this point one guess is as good as another. ■

The truth is still out there.

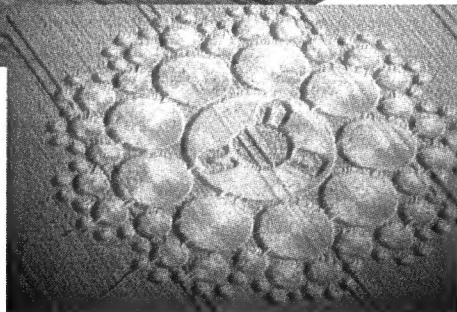
Stalks of grain swollen and bent, not broken as would be expected if they were crushed.



Intricate patterns make up typical unexplained crop circles.



Dr. Jim Butler



folio **back**
page

